

Single CAC (Cooling only)

Product Introduction



CONTENTS

Inverter Single Split Product Introduction

1 Why LG Smart Inverter

2 Energy Saving

Benefit of Partial Load Performance | Annual Energy Savings Estimation | Payback

3 Comfort

Comfort Cooling with Humidity Sensor | Power Cooling at the long pipe | Optimum Cooling | Low Noise | Maximum Cooling Capacity

4 Reliability

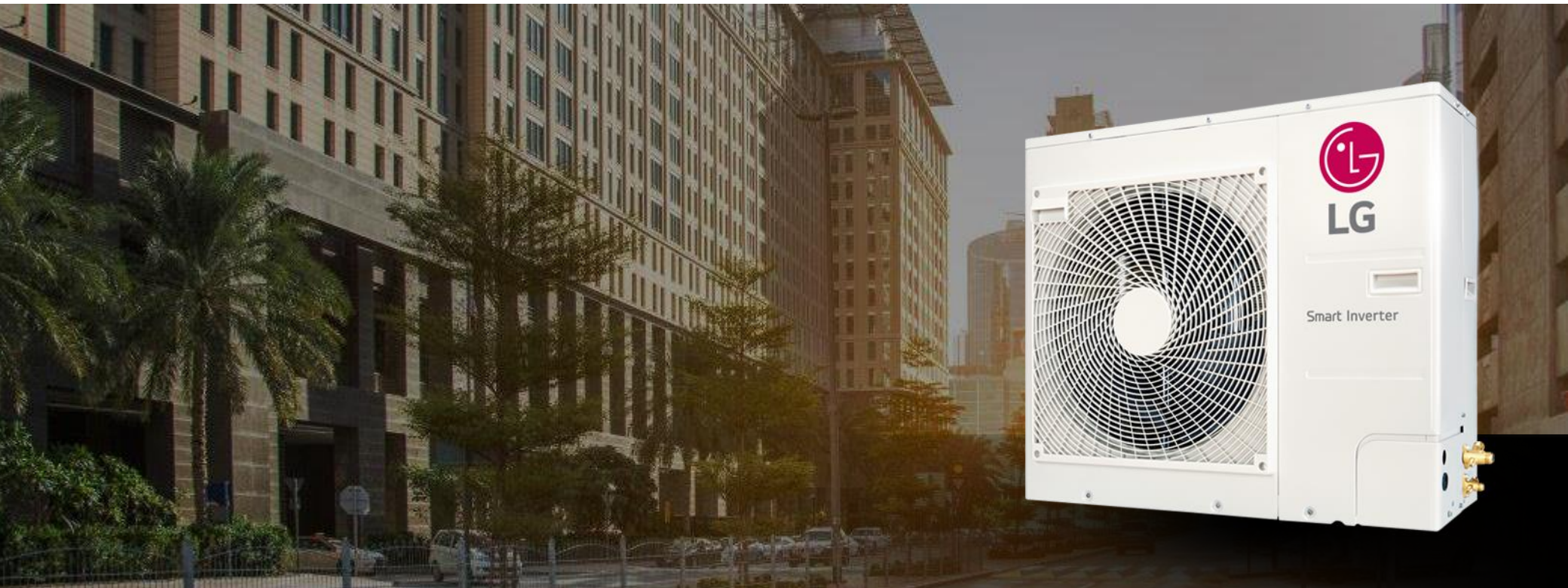
Black Fin | High and Low Voltage Protection | Advanced Long Pipe Design | Stable Cooling | Enhanced Oil Return

5 Convenience

Human Detection | Smart ThinQ | Independent Control of Airflow | Mobile LG MV | Weekly Program | Black Box for Emergency

Inverter Single Split

Why LG Smart Inverter



Why LG Smart Inverter ?



Energy Saving

Superior Efficiency

Highest level *SEER 19
(for 22, 30, 40 kBtu/h model)

Quick Payback

Quick return on investment by saving electricity
(***Payback is possible in 7 months)

Comfort

Comfort Cooling with Humidity Sensor

Comfort and efficient operation by dual sensing



Maximum Cooling Capacity

Max. 125% cooling capacity
(for 22, 30 kBtu/h model)

Reliability

Revolutionary Scroll Compressor

High performance with stable & simple structure



RI Compressor™

Revolutionary Scroll Shape Design (**Patent)

Black Fin

Highly corrosion resistant heat exchanger



Wider Operation Range



Smart Inverter



Convenience

Smart Application

Mobile LGMV (SIMs) : Easy monitoring & diagnosis
Smart ThinQ : Smart control by smartphone & google assistant



****Human Detection

Automatic direction of airflow & operation
by sensing human body



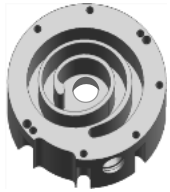
*AHRI STANDARD 210/240

** Patent registration number (S.Korea : 10-1059880, USA : RE46106)

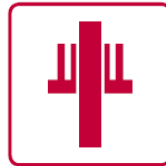
*** Simulation conditions : 40kBtu/h model, 08:00~20:00 operation, Panama(Panama city)

**** This function applies to the cassette model.

- Accessary : sensor (PTVSMAO), wired remote controller (PREMTB100 / PREMTB10)



Revolutionary Scroll Shape Design (*Patent)

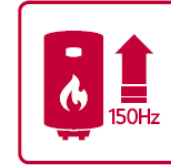
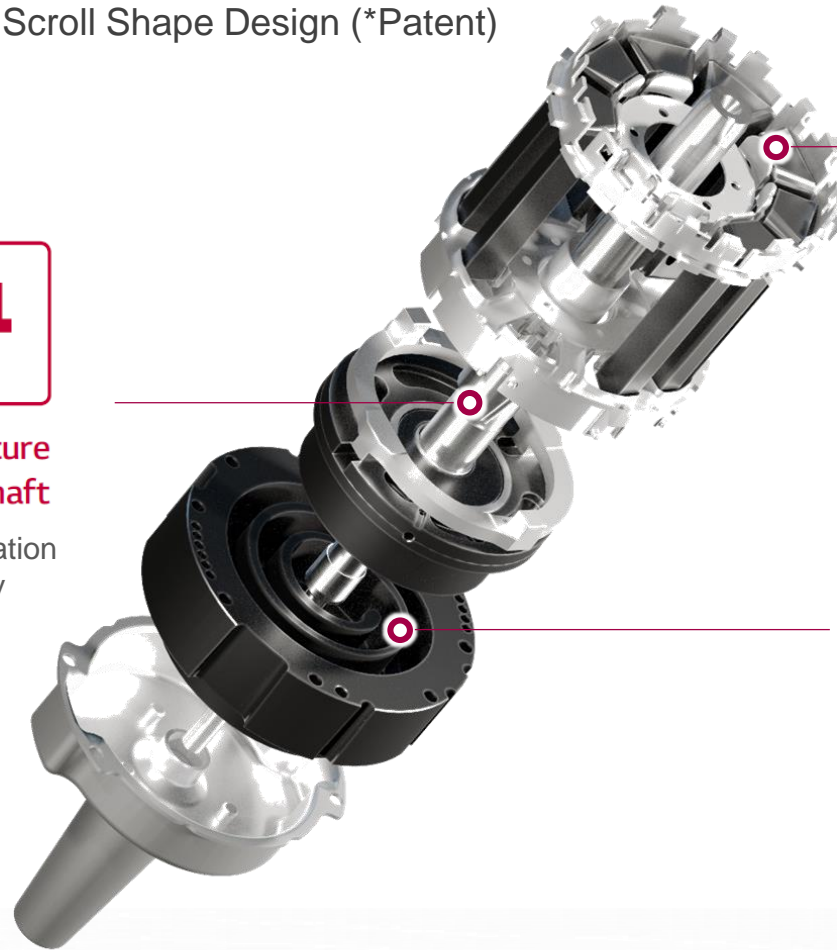


**Shaft-through Structure
& Support both ends of shaft**

- Solid compressor operation
assuring higher durability



**Centrifugal oil return
& Oil separating guide
for oil discharge reduction**



**Extended Operation
Range (max 150Hz)**



**Bottom Compression
& Simple Structure**

- Lower Noise & Vibration
****Max 4dB(A) ↓**
- Less Weight
****20% ↓**
- Superior Reliability

* Patent registration number (S.Korea : 10-1059880, USA : RE46106)

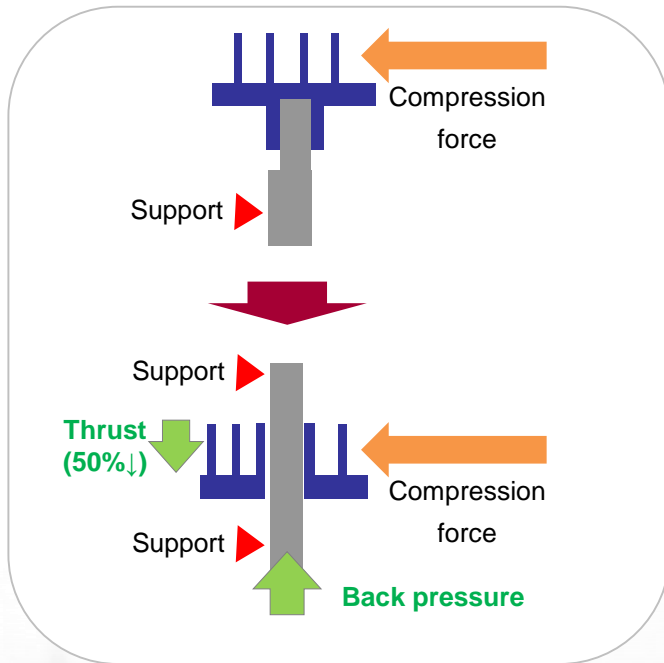
** LG Internal test result, Based on conventional compressor (Rotary type, GPT442M)

※ R1 Compressor is applied to 40, 50, 60 kBtu/h model

R1 Compressor is more stable and simple compressing structure with low-vibration characteristics of scroll compressor.

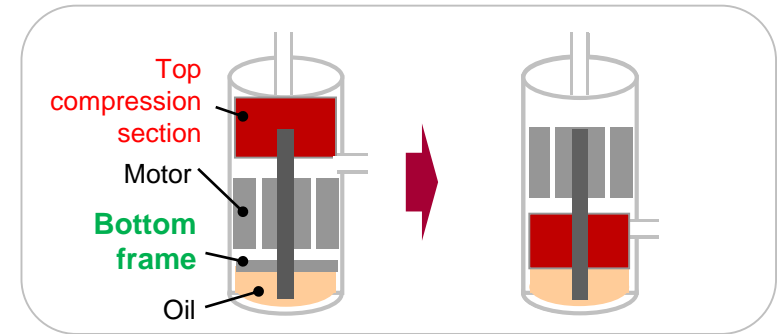
Stable structure

- Support both ends of shaft
- 50% thrust reduction compared to previous compressor*



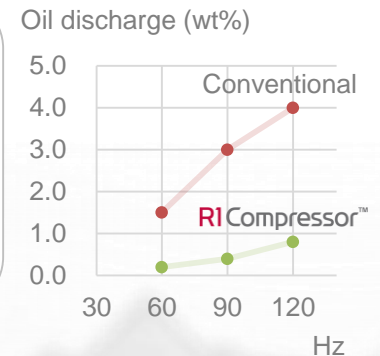
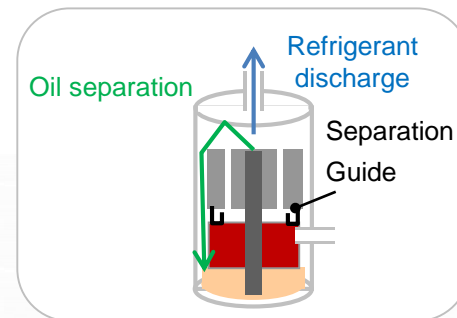
Simple structure

- Bottom compression structure
- Removed bottom frame



Reduction oil discharge at high Hz

- Reduction of maximum oil discharge compared to *conventional compressor (4.0wt% → 1.0wt% at 120 Hz)
- Discharge gas, return oil separation structure



* LG Internal test result, Based on conventional compressor (Scroll type, JAB068MA)

※ R1 Compressor is applied to 40, 50, 60 kBTu/h model

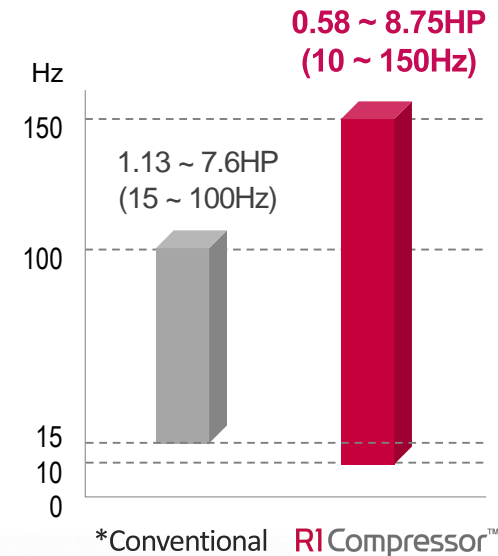
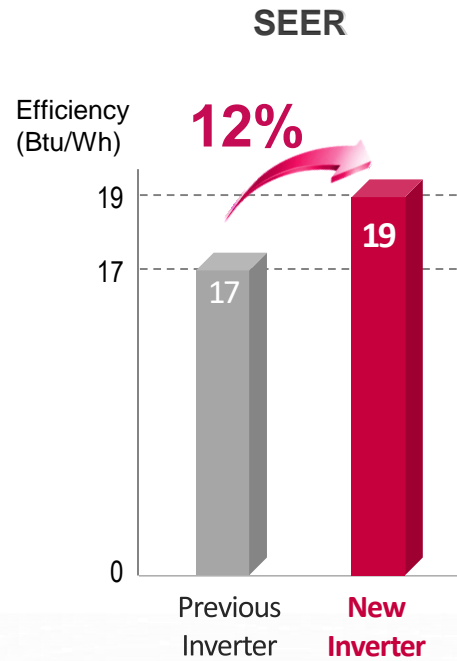
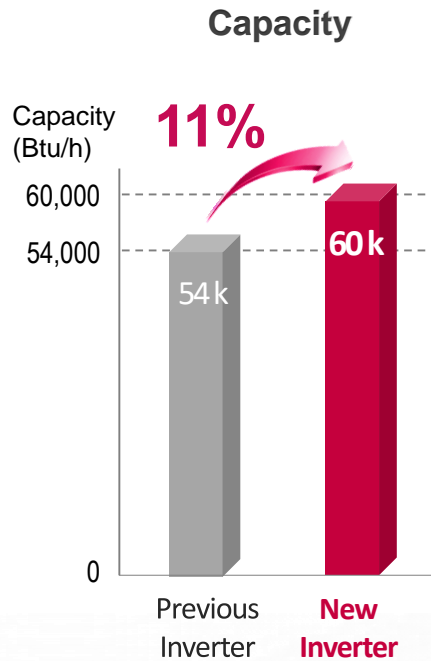
R1 Compressor makes it possible to improve capacity and efficiency with a wider operating range.

Enhanced Performance

- Maximized cooling capacity (11% ↑)
- Increased seasonal energy efficiency (12% ↑)

Extended Operation Range

- World best compressor speed (up to 150 Hz)
- Optimized for low load operation (down to 10 Hz)
(Efficiency increases)



※ The values are based on 60k(Capacity), 40k(SEER) model

* Conventional compressor : Rotary type (GPT442M)

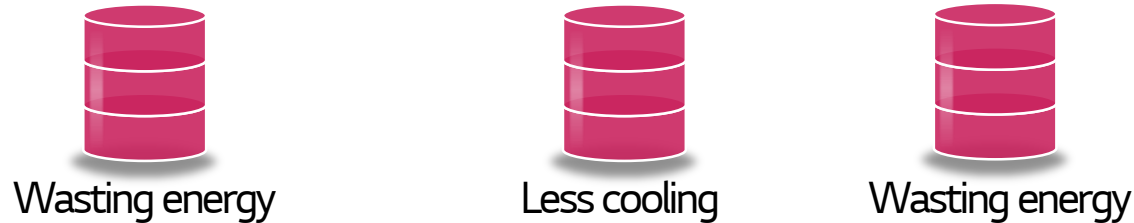
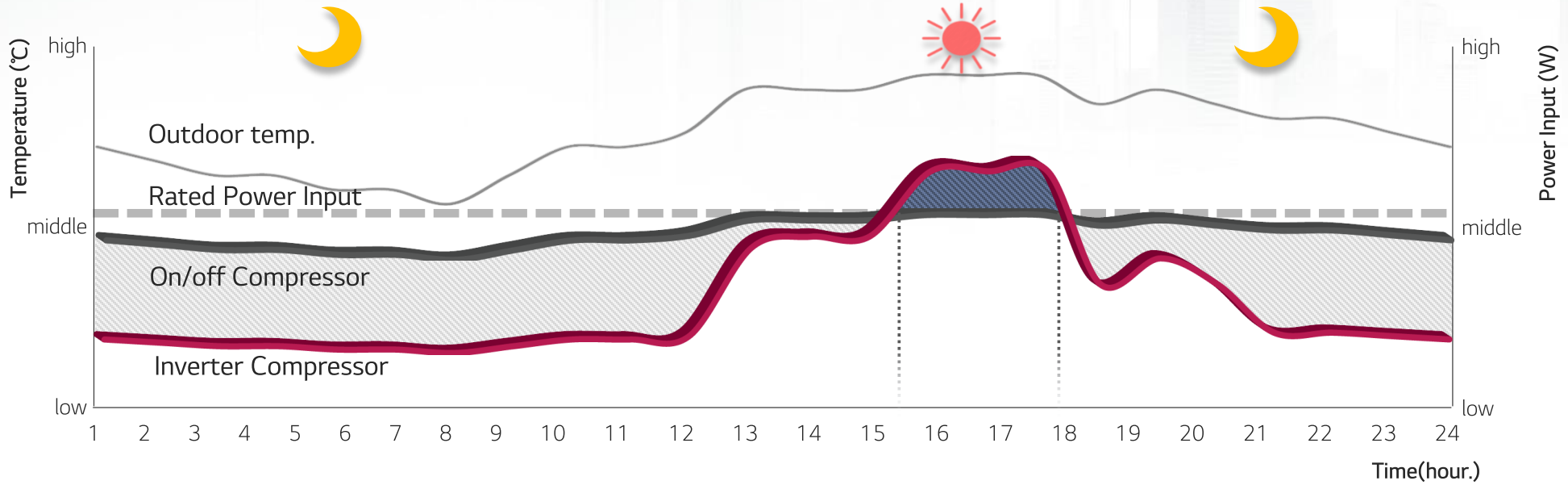
Inverter Single Split

Energy Saving

Benefit of Partial Load Performance | Annual Energy Savings Estimation | Payback

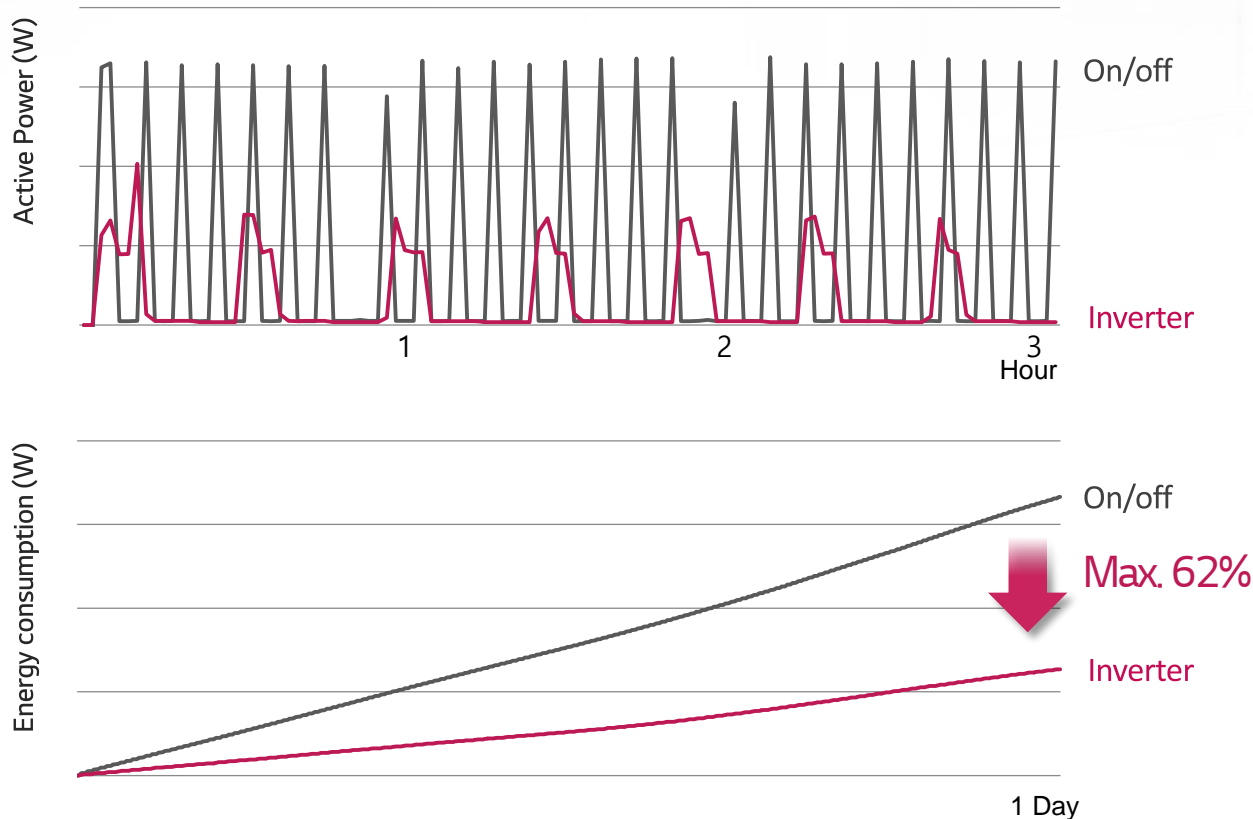


Benefit of Partial Load Performance



Benefit of Partial Load Performance

Energy consumption are expected to decline by 62% compared to on/off model.



Departemen Teknik Elektro FTUI
 No. 001/EPES/DTE/FTUI/S/V/2018

CERTIFICATE

This Certificate is to certify the performance test of
LG Inverter vs. LG non-inverter air conditioners

The test includes the followings:
 POWER CONSUMPTION
 ENERGY CONSUMPTION
 TEMPERATURE
 HARMONIC

CONCLUSION
 LG Inverter air conditioners consume less power and energy compared to LG non-Inverter air conditioners

TEST RESULTS

Type	Maximum Energy Savings
Floor-Standing 5 PK	62%
Ceiling-Cassette 4 PK	50%

Head of
 ELECTRIC POWER AND ENERGY STUDIES (EPES)
 Electrical Engineering Department
 Faculty of Engineering
Universitas Indonesia
 Prof. Dr. Ir. Iwa Garniwa MK, MT

[Conditions]

- Setting temperature : 24 °C
- Operating time : 24 hours (May 23th-24th 2018)
- Location : Electrical Energy Conversion Laboratory, Electrical Engineering Department UI Floor (University Indonesia)

※ This result can be different depending on actual environment

[Test result for a day]

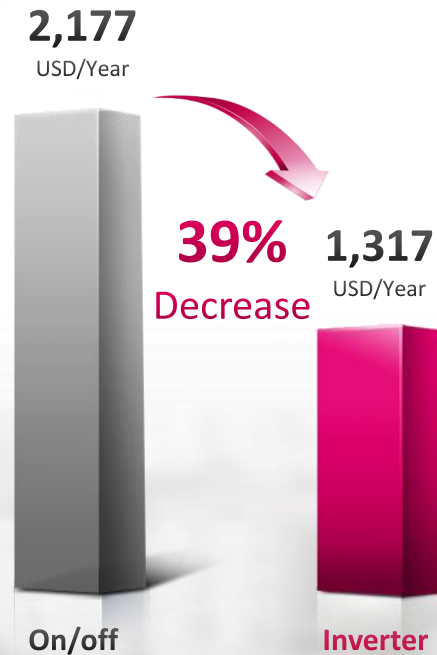
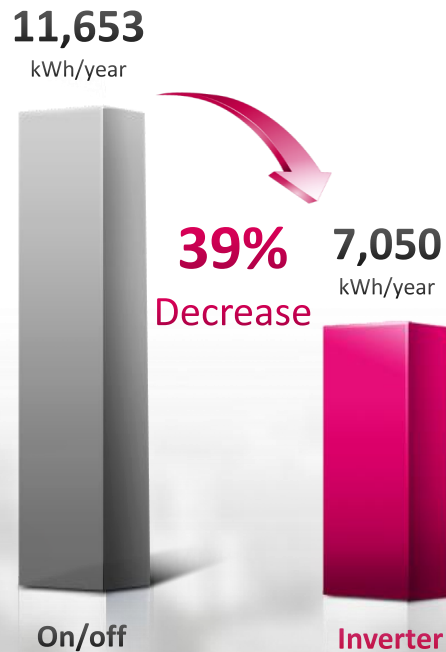
- Floor Standing (48 kBtu/h) :
 Inverter : 12,700 W On/off : 33,300 W
- Ceiling Cassette (36 kBtu/h) :
 Inverter : 8,200 W On/off : 16,400 W

Annual Energy Savings Estimation

Electricity consumption are expected to decline by 39% compared to on/off model.

Electricity Consumption

Electricity Cost



► Electric charges : 0.1868 USD/kWh (It may vary by region)

[Conditions]

- Capacity : 40 kBtu/h Cassette
- Operating time : 08:00~20:00
- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature: 24°C) Panama (Panama city)

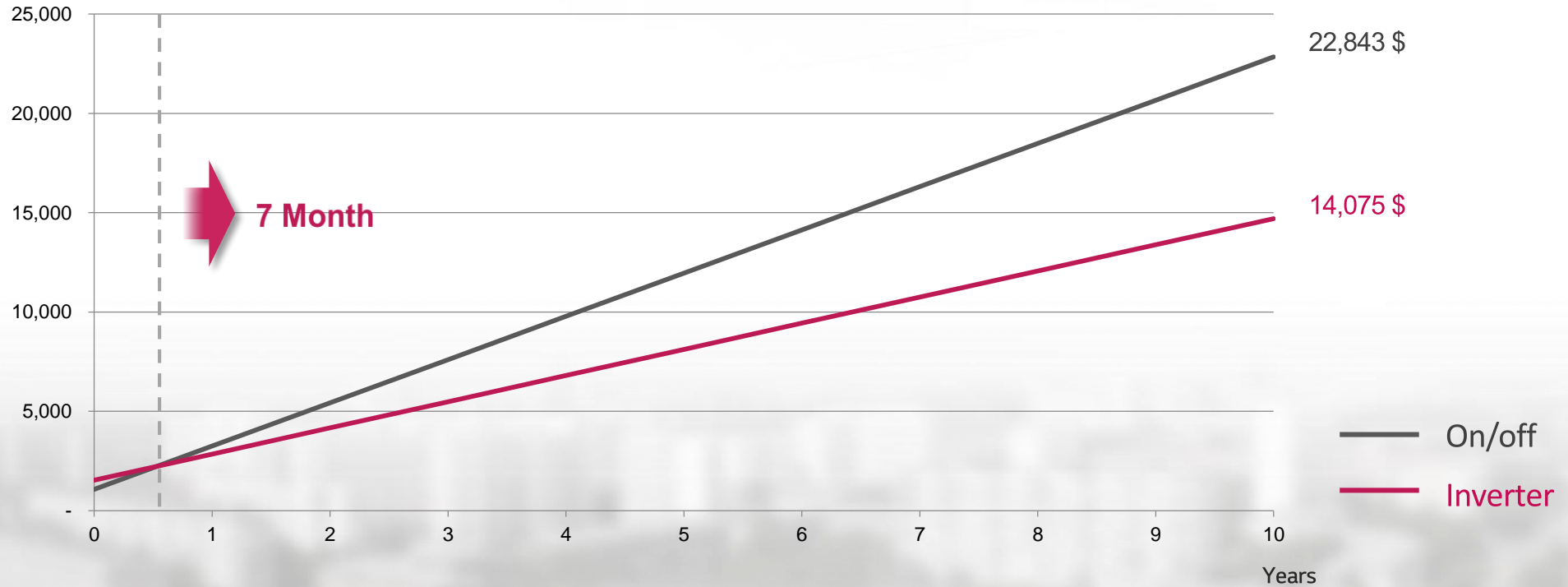
※ This result can be different depending on actual environment

Payback

If you purchase the LG smart inverter, You can get back your investment cost after 7 month .

8,138 \$ (36 %)
Cost saving after 10 year

Currency (USD)



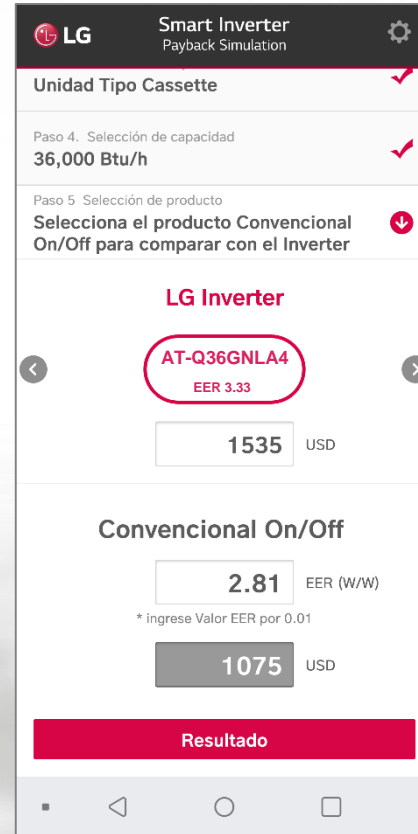
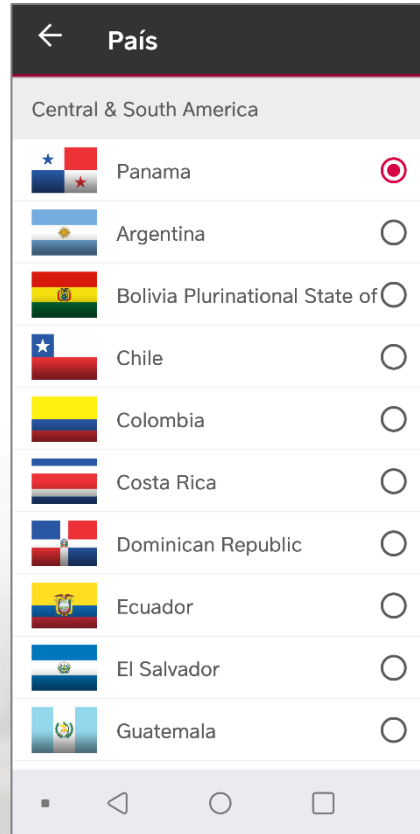
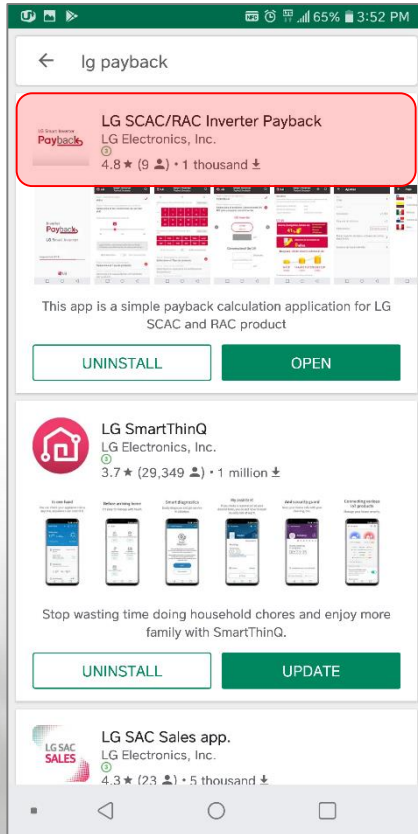
[Conditions]

- Capacity : 40 kBtu/h Cassette
- Operating time : 08:00~20:00
- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature: 24°C) Panama (Panama city)

※ This result can be different depending on actual environment

Payback

You can easily simulate on mobile via payback app. (Install "LG SCAC/RAC Inverter Payback")



[Conditions]

- Capacity : 40 kBtu/h Cassette
- Operating time : 08:00~20:00
- Cooling partial load and power consumption calculated based on yearly weather data (target indoor temperature: 24°C) Panama (Panama city)

※ This result can be different depending on actual environment

Inverter Single Split Comfort

Comfort Cooling with Humidity Sensor | Power Cooling at the long pipe | Optimum Cooling | Low Noise | Maximum Cooling Capacity



Comfort Cooling with Humidity Sensor

New model can be operated by dual sensors for comfort and efficient operation. (Temperature + **Humidity**)

Previous model



Temperature sensor

New model



Temperature sensor



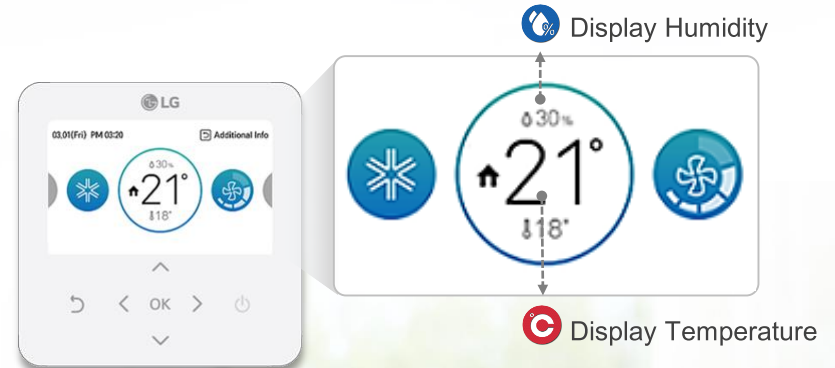
Humidity sensor



 There are sensors on both the product and the remote control for detection.

※ Comfort cooling is applied to Cassette, Suspended unit

Comfortable and power saving control based on indoor humidity



Wired Remote Controller **Standard III** (Accessory)



** To display humidity, new remote controller, PREMTB100 or PREMTBB10 is needed

Comfort Cooling with Humidity Sensor

'Comfort Cooling' is a function that changes evaporation temperature according to temperature & humidity.

LG Single Split

Dry Summer

☀️ 35°C ✓️ 15%¹⁾

Save Energy

Te²⁾ + α Refrigerants

Comfort

Low — High

Wet Summer

☁️ 35°C ✓️ 85%¹⁾

Te²⁾ - α Refrigerants

Comfort

Low — High

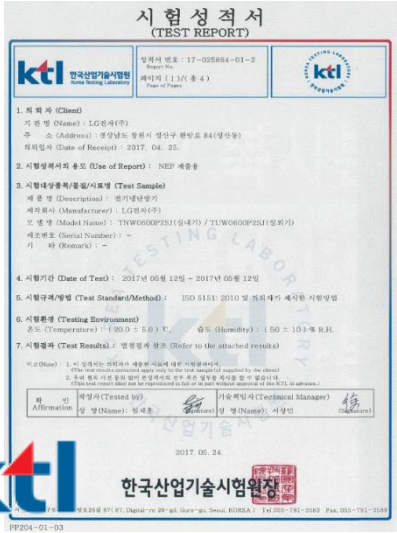
Comfortable Environment

by making the room less dry

Increased Energy Efficiency

Provide optimized cooling and save energy considering humidity

Max. 18 % Energy Saving *



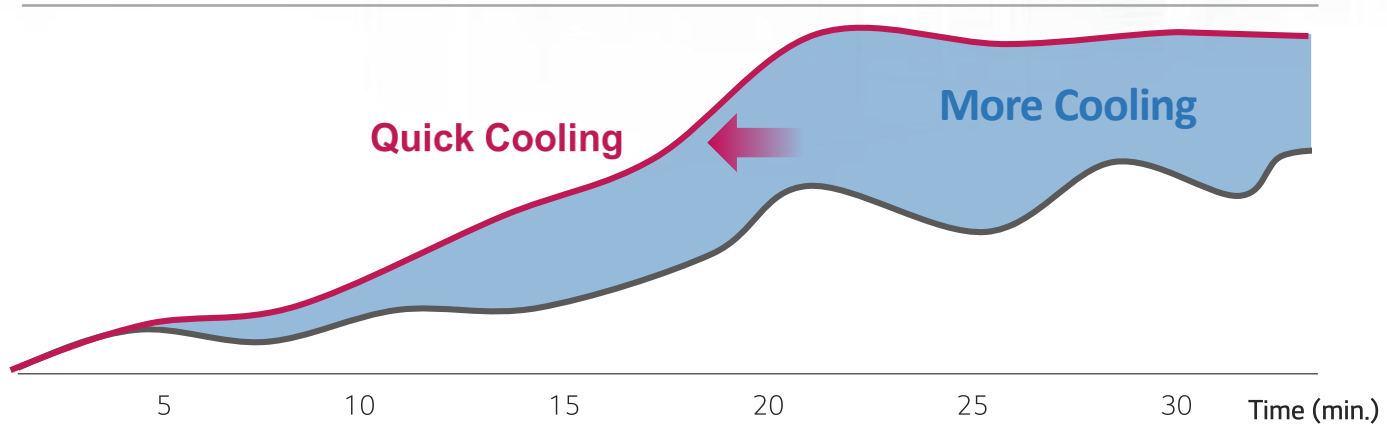
- * Test condition :
- Indoor Temp. 27 °C (DB) / 26.4°C (WB)
 - Outdoor Temp. 35 °C (DB) / 24°C (WB)
 - Applied model : AT-Q22GPLA4

1) Indoor Condition
2) Evaporation Temperature

Power Cooling at the long pipe

LG Smart inverter provide powerful cooling capacity by auto detection of pipe length.

Rated capacity (100%)



Previous Inverter



Indoor Discharge : 20 °C



Indoor Discharge : 18 °C



Indoor Discharge : 16 °C

New Smart Inverter



Indoor Discharge : 20 °C



Indoor Discharge : 16°C



Indoor Discharge : 14°C

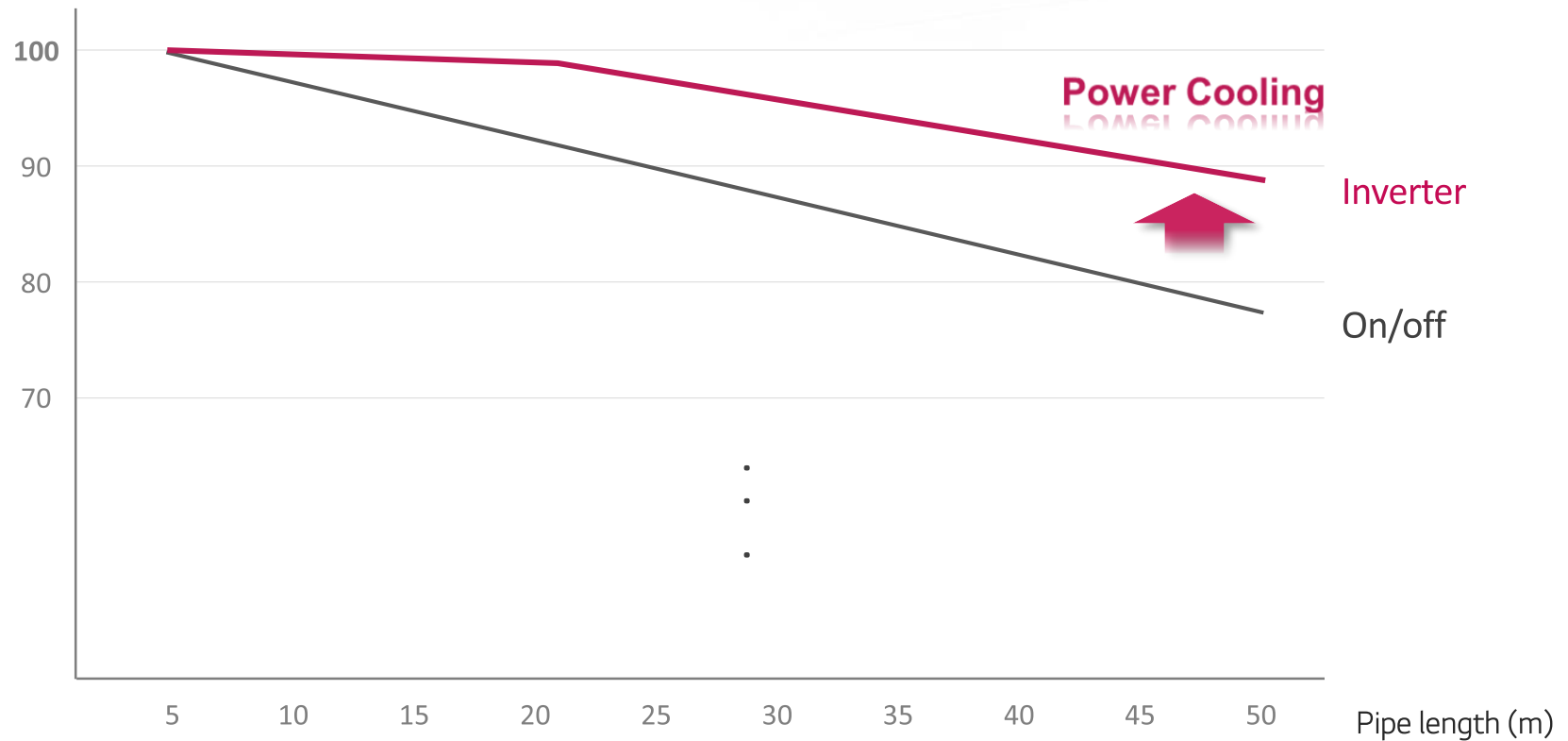
※ Test condition :
- Pipe length : 50m, Temperature : 27 / 35 °C (Indoor / Outdoor)

※ This result can be different depending on actual environment.

Power Cooling at the long pipe

It has capacity of 10% higher more than on/off model at the 50m pipe length.

Rated capacity (%)



※ The data is based on the PDB of LG global model.
※ Test condition (Temperature) : 27 / 35 °C (Indoor / Outdoor)

Optimum Cooling

When indoor temperature reaches near to the target temperature, LG Smart Inverter adjusts its discharge air temperature to prevent the indoor from being overcooled.

On/off

Inverter

 12 °C

Setting Temperature
20 °C

 15 °C

20 °C

Current Temperature

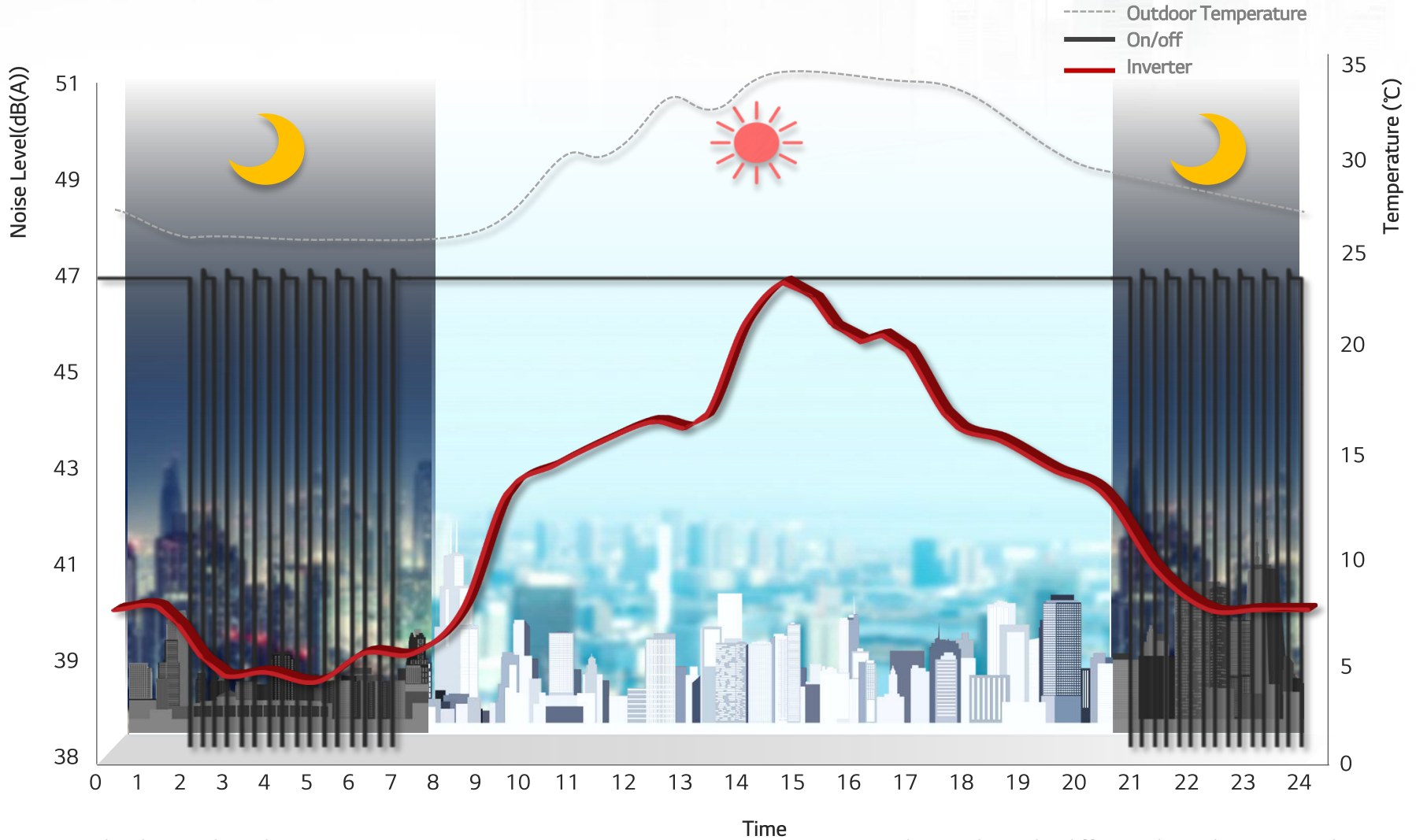
20 °C

Current Temperature



Low Noise

Inverter makes lower noise than on/off model due to adjustable frequency according to the load.



※ Noise level in residential environment :
60dB(A) : Normal conversation, 50dB(A) : office, 40dB(A) : Livingroom

※ This result can be different depending on actual environment.
※ The value of noise level is based on "A*UQ22G**A4"

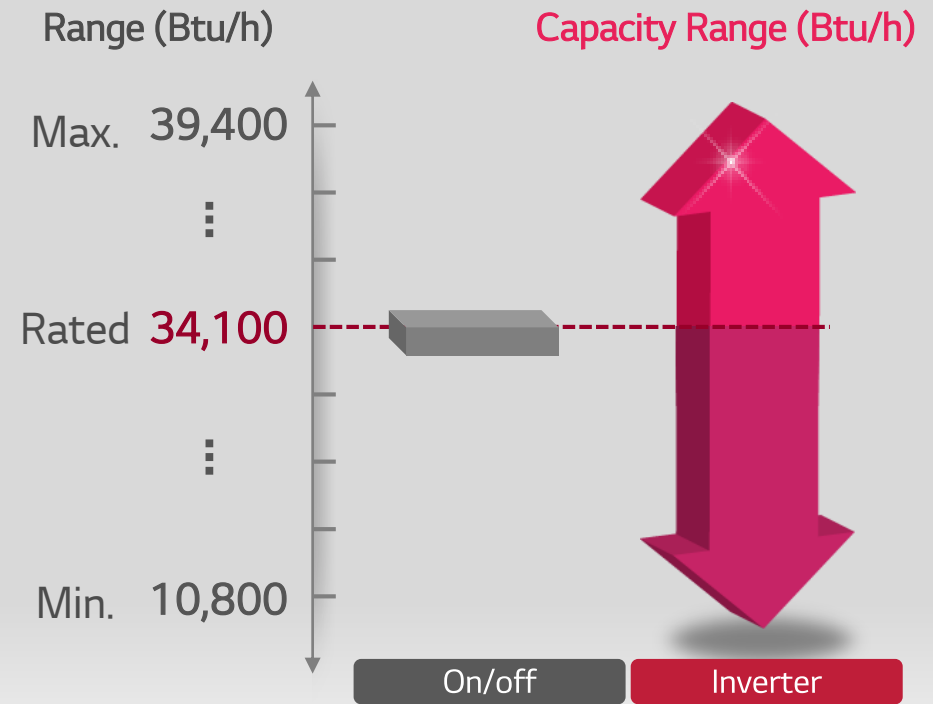
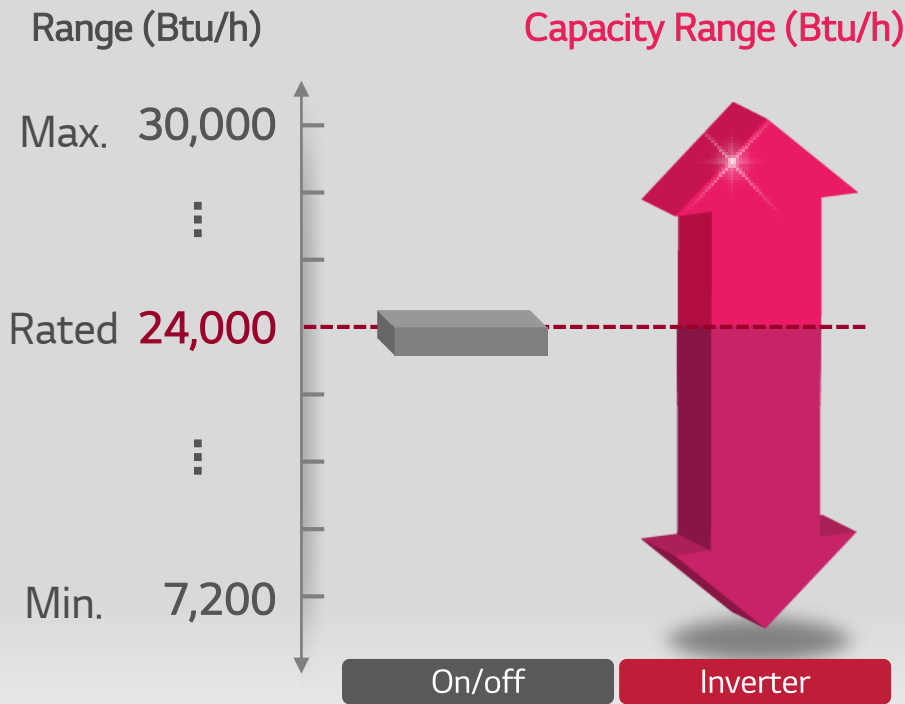
Maximum Cooling Capacity

With Maximum and Minimum speed Inverter compressors, LG Smart Inverter achieves wider operation capacity range.

※ It is accordance with AHRI 210/240 or ISO 5151(T1 condition)
T1 condition (Temperature) : 27 / 35 °C (Indoor / Outdoor)

24,000 Btu/h

36,000 Btu/h



*Model : AT-Q30GPLA4

*Model : AT-Q40GNLA4

Inverter Single Split

Reliability

Black Fin | High and Low Voltage Protection | Advanced Long Pipe Design | Stable Cooling | Enhanced Oil Return

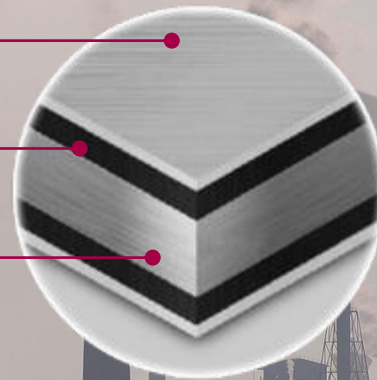


Black Fin

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution including fumes from factories. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

Longer Lifespan, Lower Maintenance Costs

- **Hydrophilic film (Water flow)** —————
The Hydrophilic coating minimizes moisture buildup on the fin.
- **Corrosion resistant layer** —————
The Black coating provides strong protection from corrosion
- **Aluminum Fin** —————



Verification of Corrosion Resistance Performance Testing



Reference No.: 50210571 001

TÜV Rheinland verify that corrosion resistance performance of condenser employed on outdoor unit of air-conditioners is satisfied requirements at test method B of ISO 21207 standard according to reference no. 50210571 001.

Holder : LG Electronics Inc. Changwon 2nd Factory
84, Wanam-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, 642-713, Korea

Product: Condenser Employed on Outdoor Unit of Air-Conditioners

Identification: ARU*****

Applicable Standard: Test method B of ISO 21207 (Salt contaminated condition and Severe industrial or traffic environment)

Claim Verified: Condenser resists 27 years of simulated severe corrosion

Acceptance Criteria: LG(88)-E-8148

Date: 2019.01.23



Dong-Gyun Cheon

TÜV Rheinland Korea Ltd. - Seoul 07298 - Republic of Korea

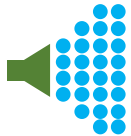
✧ Verification of corrosion resistance performance

Black Fin

Through the internal durability test to a corrosive environment, Black Fin's performance is proved that it is improved with compared to a previous heat exchanger fin.

SST (Salt Spray Test)

Test Process

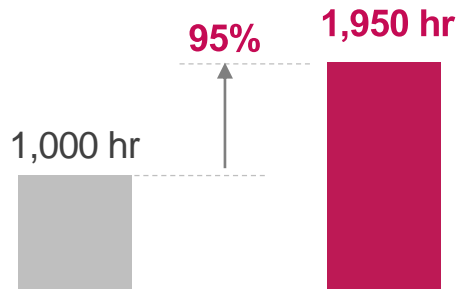


× Process repeated

Fog ¹⁾ (35°C, 24hr)

Test process is conducted according to ISO 9227.
 1) Salty water concentration : NaCl aqueous solution (5%)

Test Result (5% Area of defects compared to initial)



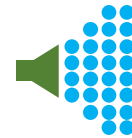
Gold Fin

Black Fin



CCT (Cyclic Corrosion Test)

Test Process



Fog ¹⁾
(35°C, 2hr)



Dry
(70°C, 2hr)

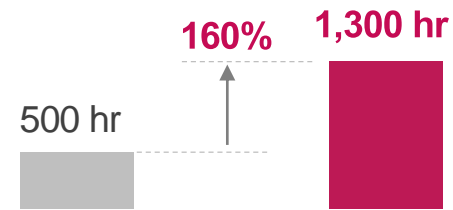


Wet ²⁾
(50°C, 2hr)

× Process repeated

Test process is conducted according to ISO 14933.
 1) Salty water concentration : NaCl aqueous solution (5%)
 ※ Dry condition changed : 60°C, 4hr → 70°C, 2hr
 2) Deionized water

Test Result (5% Area of defects compared to initial)



Gold Fin

Black Fin



High and Low Voltage Protection

Below low voltage limit, inverter compressor reduces frequency(Hz) and boost DC voltage, over high voltage limit, cuts off the relay to prevent damage of DC capacitor

	On/off	LG Inverter
Low & High Voltage detection	No protection logic	Automatic detection and blocking (continuous running at 187V ~ 276V)
CT(Current transformer) current limit	On/off operation	Inverter control without stopping
DC peak detection	No need	Automatic detection and blocking

EMS Test Report		
PRODUCT	Air Conditioner	MODEL : ABUW54GM3T1 +ABNW54GM3T1
Test Purpose	Event -DV	Test Date : 2018. 2. 21
Temp.	24.8 °C	Humidity : 41.5 %
Product (Famib) Standard		
<input type="checkbox"/> EN 55014-2	<input checked="" type="checkbox"/> CISPR 14-2	<input checked="" type="checkbox"/> 분부 인증 규격 <input type="checkbox"/> Certificate
<input type="checkbox"/> KN 14-2	<input type="checkbox"/> EN 55024	<input type="checkbox"/> -NPI Process
<input type="checkbox"/> KN 24	<input type="checkbox"/> IEC 60335-1	<input checked="" type="checkbox"/> DV <input type="checkbox"/> PV <input type="checkbox"/> PQ <input type="checkbox"/> MP <input type="checkbox"/> Pre-Test
EUT Description		
- EUT Type : <input checked="" type="checkbox"/> Floor Standing <input type="checkbox"/> Table Top		
- Ratings : <input type="checkbox"/> 110 V <input type="checkbox"/> 230 V <input type="checkbox"/> 400 V <input checked="" type="checkbox"/> 50 Hz <input type="checkbox"/> 60 Hz		
<input type="checkbox"/> 120 V <input type="checkbox"/> 240 V <input type="checkbox"/> 415 V		
<input type="checkbox"/> 220 V <input type="checkbox"/> 380 V <input type="checkbox"/> Other (220-240 V)		
- Operating Conditions : <input type="checkbox"/> Cooling & Heating Mode		
- Category : <input type="checkbox"/> Category I <input type="checkbox"/> Category II <input type="checkbox"/> Category III <input checked="" type="checkbox"/> Category IV		
Required testing:		
Test Item	Performance Criteria	Result
<input type="checkbox"/> IEC 61000-4-2	A	-
<input checked="" type="checkbox"/> ESD	Contact 10kV; 비접촉, Reset 후 40kV; Reset 후	공통항 (000) PASS
<input checked="" type="checkbox"/> IEC 61000-4-3	A	PASS
<input checked="" type="checkbox"/> Radiated Immunity	10V; 방전 (소선 비방)	공통항 (000) PASS
<input type="checkbox"/> IEC 61000-4-4	A	-
<input checked="" type="checkbox"/> EFT / Burst	Main 2kV; 비주, Reset 후 Main 4kV; 비주(소선 비방)	공통항 PASS
<input type="checkbox"/> IEC 61000-4-5	A	-
<input checked="" type="checkbox"/> Surge	4kV; 비주, Reset 후 8kV; 비주 (소선 비방)	공통항 (000) PASS
<input checked="" type="checkbox"/> Conducted Immunity	A	PASS
<input checked="" type="checkbox"/> IEC 61000-4-6	A	PASS
<input checked="" type="checkbox"/> Voltage Dip / Interruption	10V; 방전 (소선 비방)	공통항 PASS
<input type="checkbox"/> IEC 61000-4-11	C	-
Remark: 1. Max Clock Freq; Indoor 160Hz		
The equipment complies with the requirements according to the above standards, and the results in this test report apply only to sample tested.		
Note: It is not allowed to copy and modify this report even partly without the written permission of the Test Laboratory.		
Tested by:	Reviewed by:	
Seung Yun Yee / Research Engineer Quality Centre, Product Testing Laboratory, Changwon EMC Center, LG Electronics Inc.	Kim Tae Yul / Senior Research Engineer Quality Centre, Product Testing Laboratory, Changwon EMC Center, LG Electronics Inc.	
Address: LG Electronics Inc. 391-2, Gu Eum Jeong Dong, Seong San-Gu, Changwon, Gyeong Nam, Korea Telephone: +82-55-260-3966-7		

Withstand Max. 6kV surge*

When a transient voltage such as a lightning stroke is applied to the power supply, The product can be **protected up to 4kV** and **prevented from fire up to 6kV**



High risk of compressor failure



Compressor protection

※ The allowable operation range is ±15% of rated voltage.
 ※ This result can be different depending on actual environment.

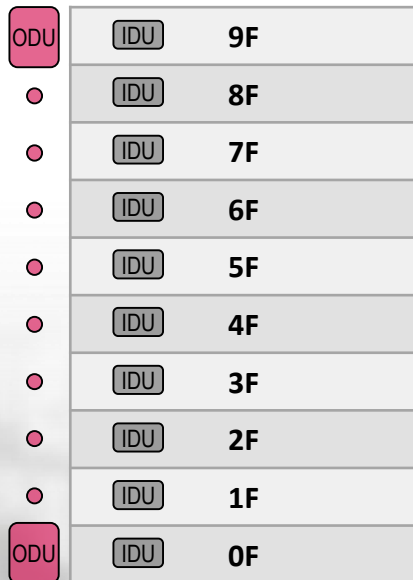
* The test report is verified in LG Electronics.

Advanced Long Pipe Design

Outdoor unit of on/off model need to be installed at the balcony, But the outdoor unit of LG inverter model can be installed on the Rooftop.

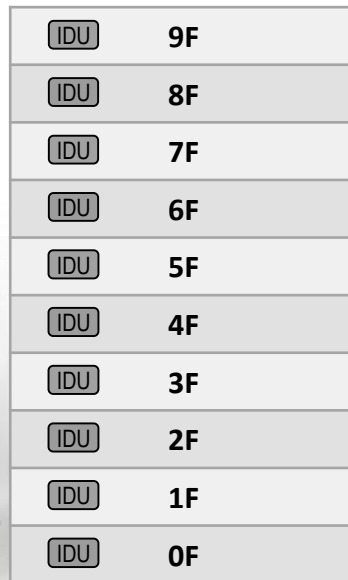
On/off

Balcony Installation



LG Inverter

Rooftop Installation



30m

3m

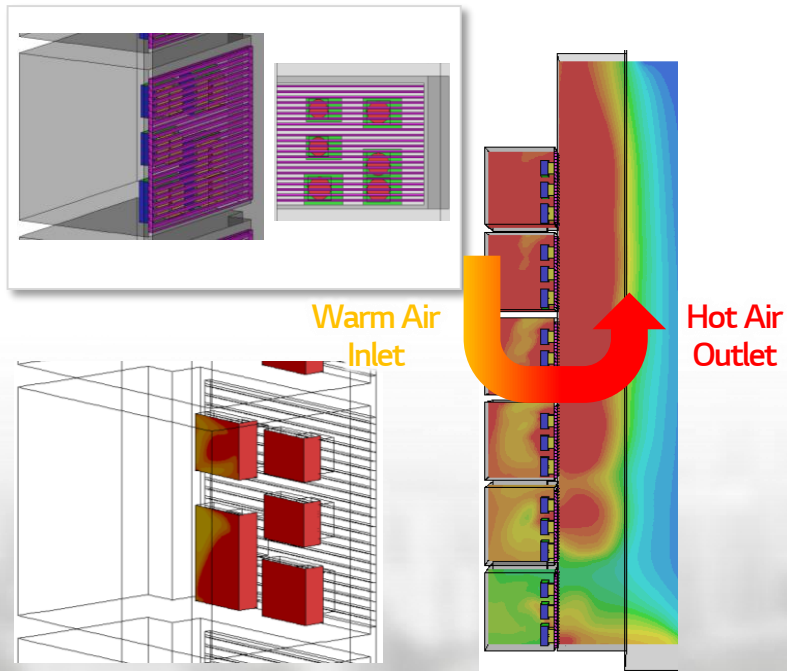
Capa. kBtu/h	Pipe Length(m)		Pipe Height(m)	
	LG	On/off	LG	On/off
22	30	20	20	10
30	50	25	30	10
40	50	25	30	10
50	50	30	30	15
60	50	30	30	15



Stable Cooling (CFD Analysis)

High suction air temperature inside machine room can influence unit's normal operation. But, The LG model installed in the roof top enables continuous operation and stable cooling.

Window(ODU room) Installation

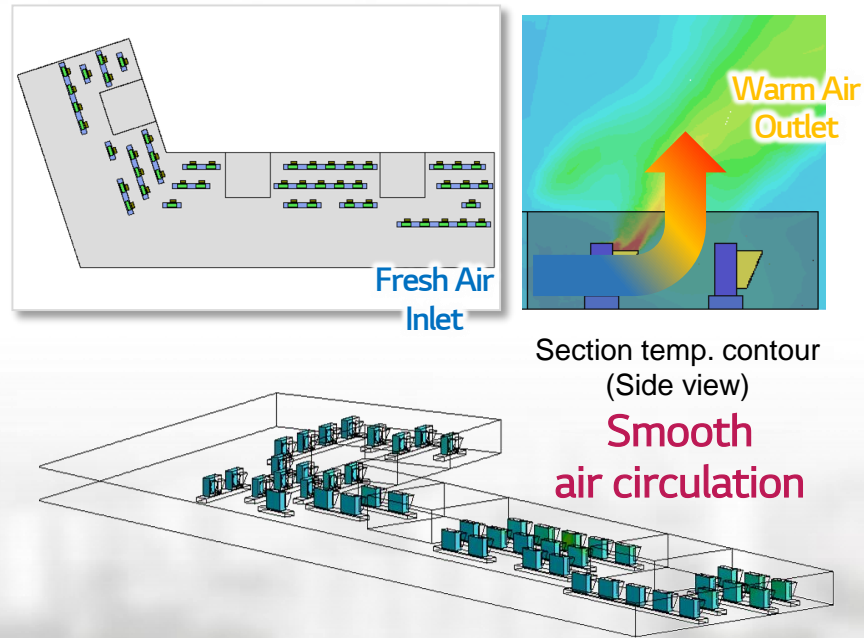


Inlet air temp. of heat exchanger (ISO view)

Section temp. contour (Side view)

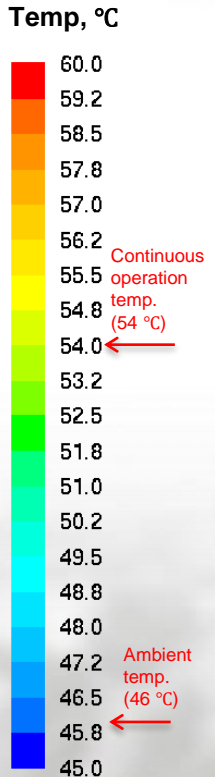
Reentry Discharge Air

Rooftop Installation



Inlet air temp. of heat exchanger (ISO view)

Section temp. contour (Side view)
Smooth air circulation

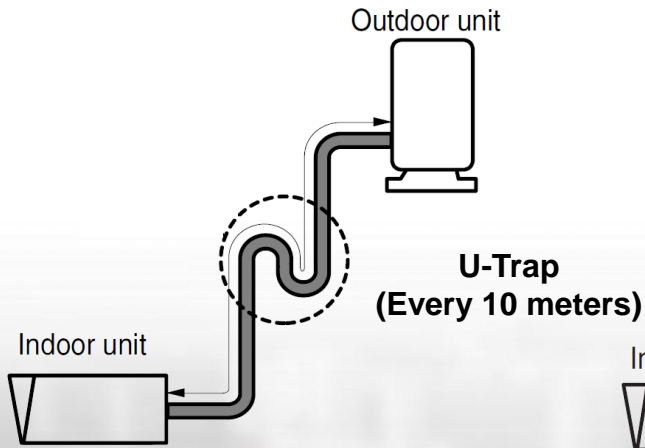


※ CFD result could be different from actual site.

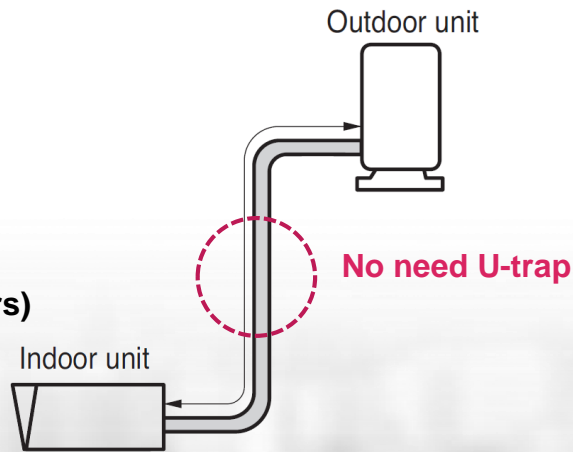
Enhanced Oil Return

LG products are self-tested without U-Trap, verifying the adequacy of the amount of oil and ensuring reliability. In addition, it has an automatic oil return function*, and it can return oil in real time.

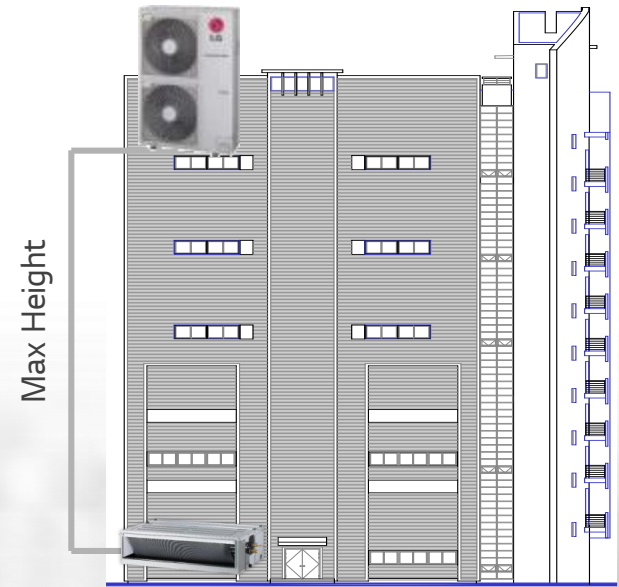
Conventional



LG Inverter



Enhanced reliability
Reduced installation costs



- [Test condition]
- Location : LG HQ
 - Pipe length :
22k : 30m, 30~60k : 50m
 - Pipe Height :
22k : 20m, 30~60k : 30m
 - Period : 3 month (checking oil level in real time)
 - No use U-Trap

* It is a logic that automatically recovers oil through periodic high Hz operation during long time operation at low load with low Hz

Inverter Single Split

Convenience

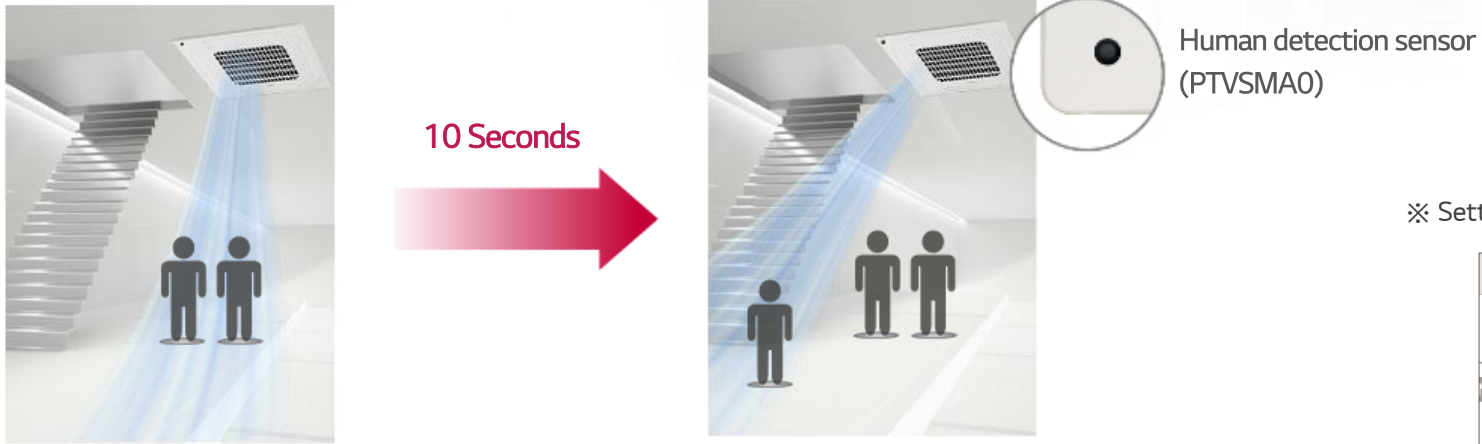
Human Detection | Smart ThinQ | Independent Control of Airflow | Mobile LG MV | Weekly Program | Black Box for Emergency



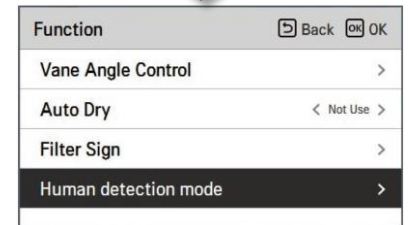
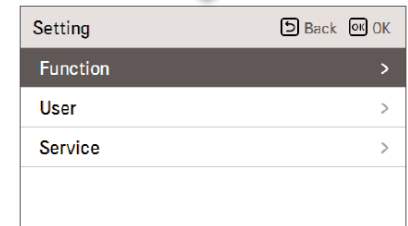
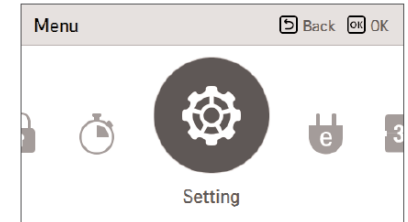
Human Detection

Direction control based on human motion

Air flow direction is controlled automatically by motion sensor that detects the activity of people every 10 seconds.

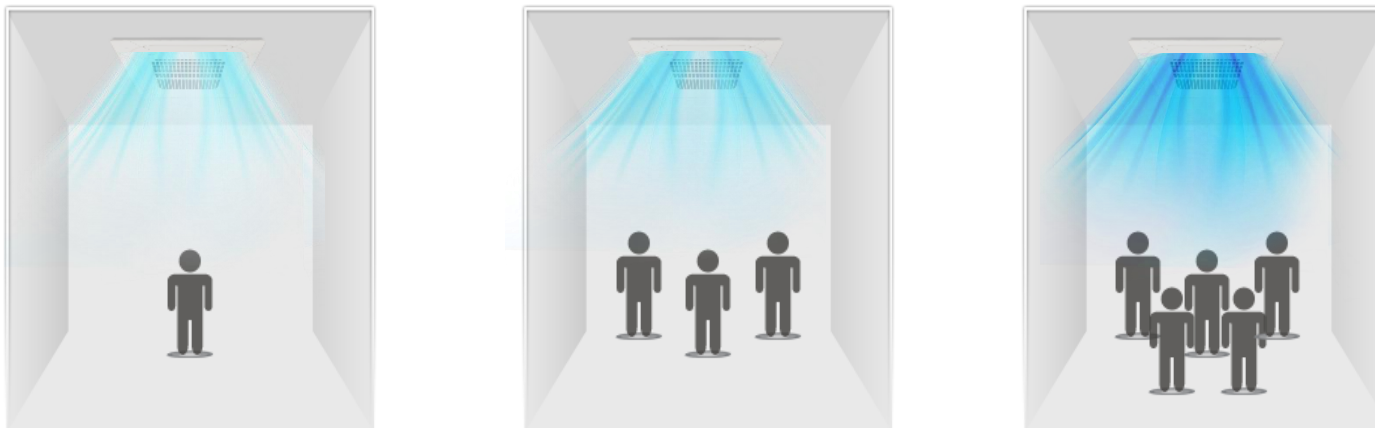


※ Setting screen on the remote controller



Compressor control based on real load

Discharge temperature is controlled by the number of occupancy.



※ Sensor is optional accessory (PTVSMAO) : only can be applied to PT-MCHW0(CST Panel)

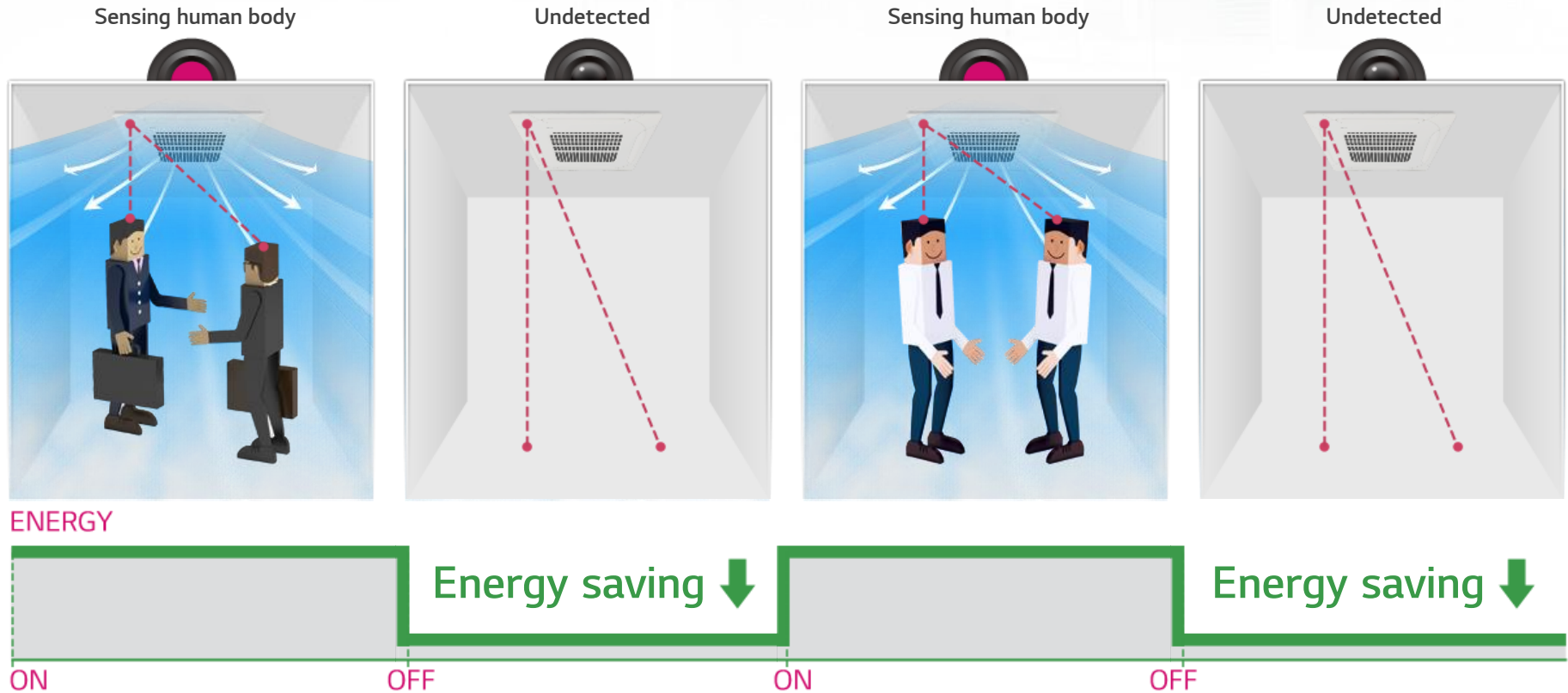
※ To use this function, new remote controller, PREMTB100 or PREMTBB10 is needed

Human Detection

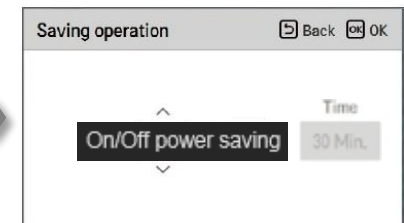
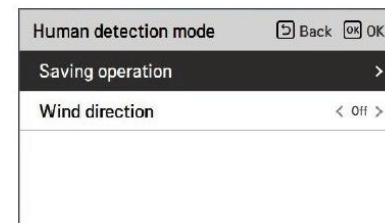
The indoor unit automatically stops when detecting absence. It runs as the same as previous mode when sensing human body.



Max. 35 %
Energy Saving *



※ Setting screen on the remote controller



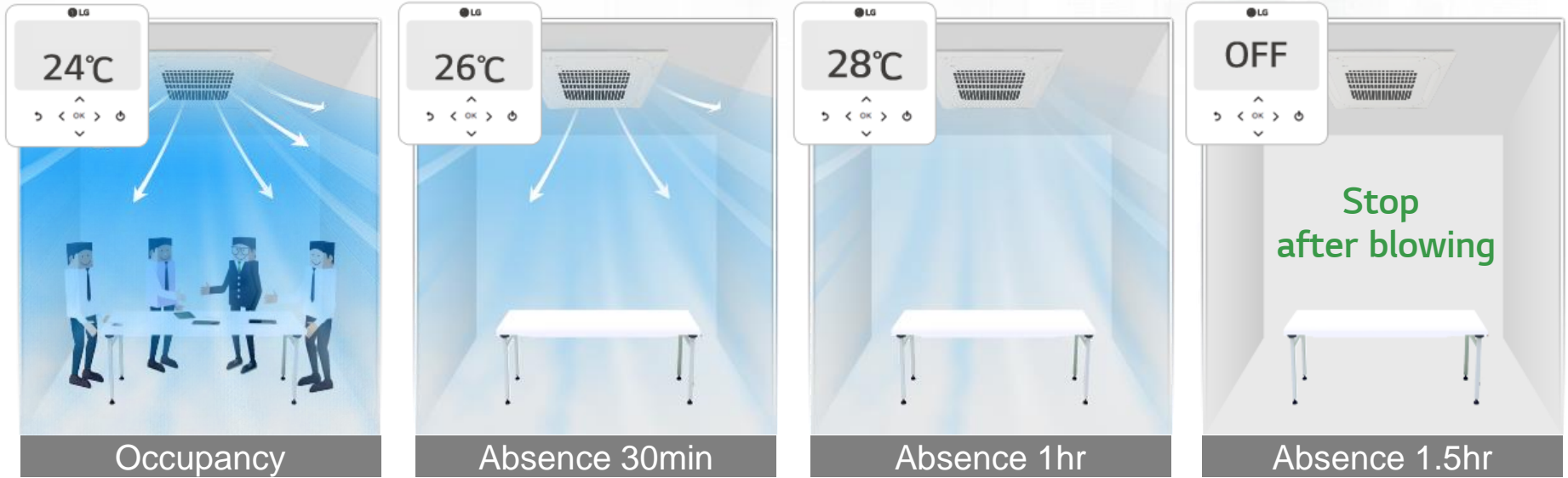
* The value is LG internal simulated data

※ Sensor is optional accessory (PTVSMAO) : only can be applied to PT-MCHW0(CST Panel)

※ To use this function, new remote controller, PREMTB100 or PREMTBB10 is needed

Human Detection

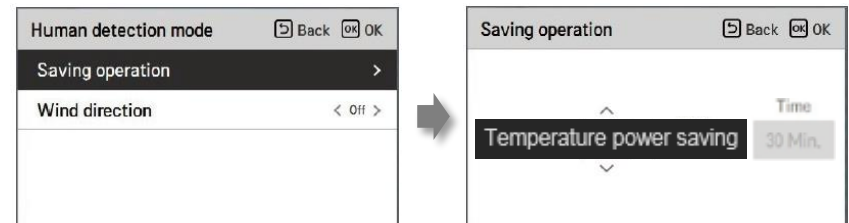
Energy savings by automatically setting target temperature during absence. (5/10/15/30/60/90 min.)



ENERGY



※ Setting screen on the remote controller



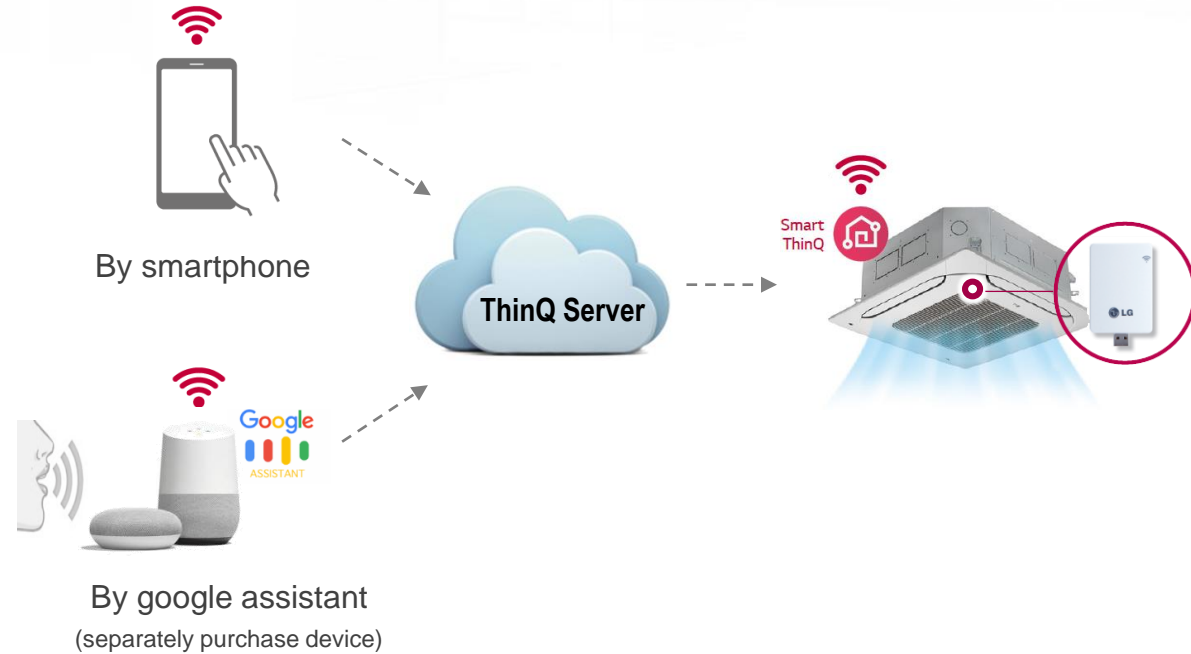
※ Sensor is optional accessory (PTVSM A0) : only can be applied to PT-MCHW0(CST Panel)
 ※ To use this function, new remote controller, PREMTB100 or PREMTBB10 is needed

Smart ThinQ

Control your air conditioners using the smart internet devices as Android or iOS based smartphones and voice commands via google assistant.



Access your air conditioner anytime and from anywhere



Simple operation for various functions

- On/Off*
- Mode Selection*
- Current temperature*
- Set temperature*
- Set fan speed*
- Vane Control
- Reservation
- Energy Monitoring
- Filter Management
- Smart Diagnosis

※ Search "LG Smart ThinQ" on Google market or Appstore then download the app.

※ Wi-Fi modem (PWFMD200) is required by option.

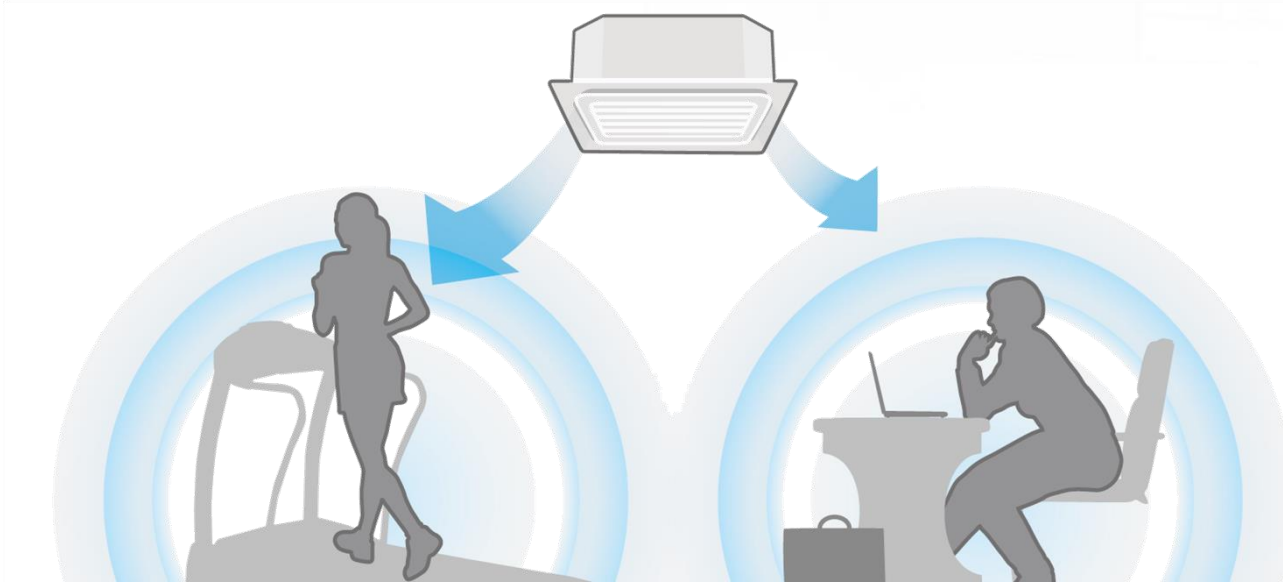
* This functions are used by google assistant.

※ In some countries, the use of the google assistant system may be restricted.

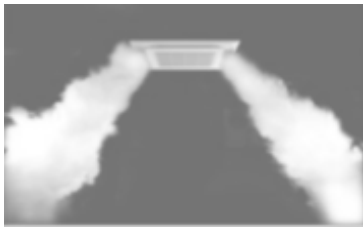
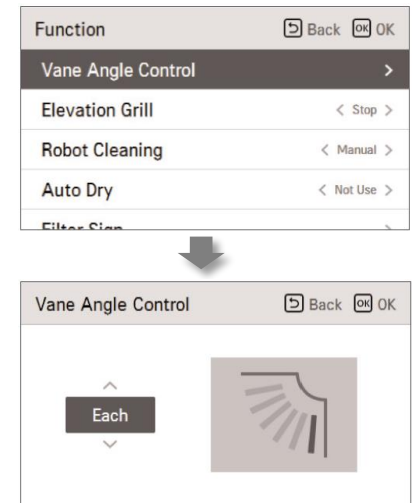
- Mexico, Brazil : Available on Jun.`19 (English), Sep.`19 (Local language)

Independent Control of Airflow

The independent vane operation feature uses separate motors, making it possible to control all four vanes independently. The independent control provides optimal comfort for each user. It is capable of handling inclination angles between 20° ~ 70°



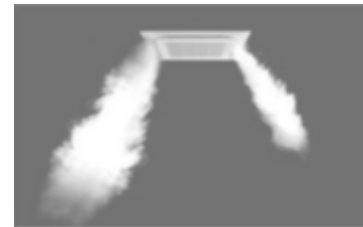
※ Setting screen on the remote controller



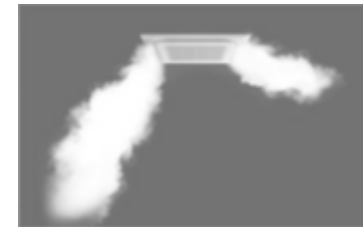
2-vane Control



1-vane Control



Volume Control



Angle Control

Mobile LG MV

LG MV (Monitoring View) helps engineers to inspect and monitor air conditioning unit easily.



Error Indicator

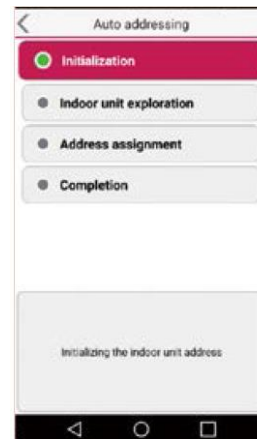
Error Code	Contents
01	Air temperature sensor of indoor unit
02	Inlet pipe temperature sensor of indoor unit
03	Communication error : Wired Remote Controller ↔ Indoor Unit
	⋮



Cycle Monitoring



Diagnosis



Installation



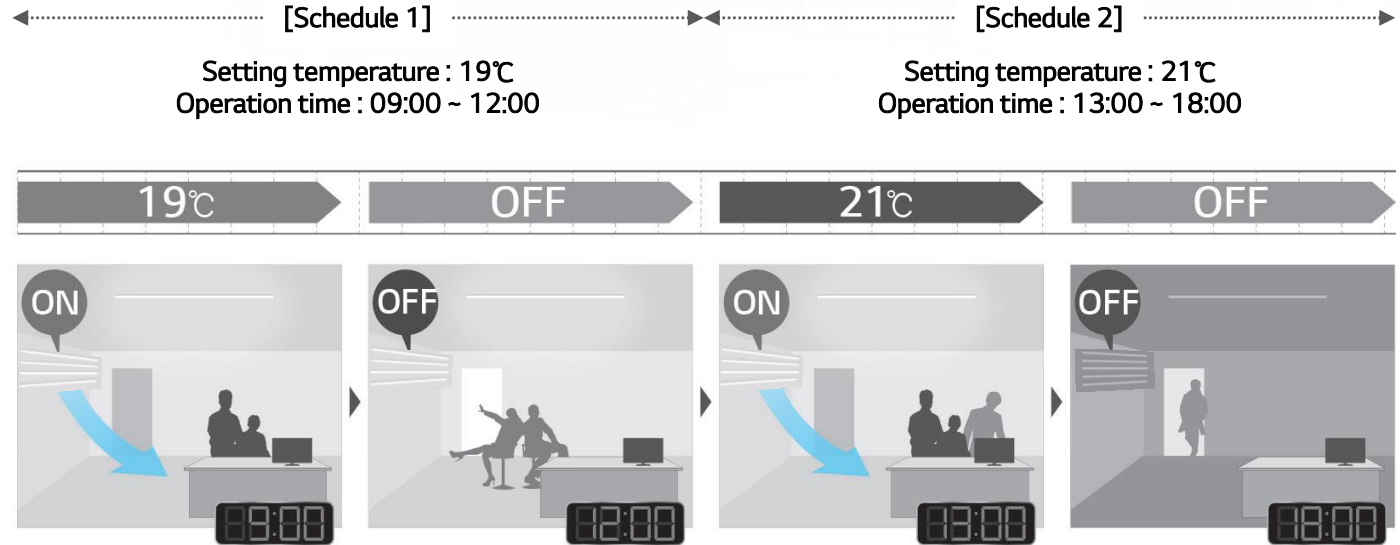
Smart Management

A technician not only can check the **cycle information** with diagrams & graph, but also check easily the **error status** (troubleshooting guide) and tack action immediately.

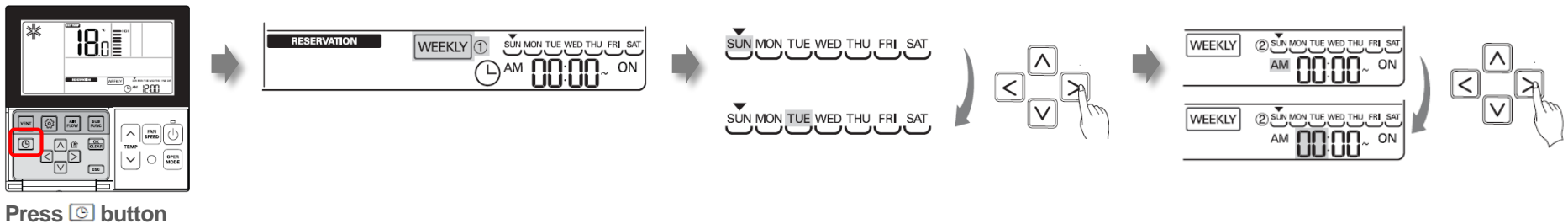
※ Search "Mobile LGMV" on Google market or App store then download the app.
 ※ Wi-Fi modem (PWFMD200) is required by option.

Weekly Program

You can set the daily temperature, fan speed, the operation mode and automatic on/off time for one week. It will keep running on that time until cancelled by the user or after setting period.



※ Setting screen on the remote controller



※ This function is for wired remote controller only.

- Cassette, Suspended unit are not include by default the wired remote controller (Wireless remote controller is included by default)
- Duct, Ducted split are include by default the wired remote controller

Black Box for Emergency

Quick Service can be done because operation data can be saved before system failure.

Without Black box function

Check many failure causes and error codes in person

Take much service time and undergo trial and error



With Black box function

Search for the failure cause conveniently using recorded data

Save service time and diagnose product more accurately

























Record operation data for **Autosave function** before system failure!



※ It can be checked by using SIMs

Line-up

kBtu/h		22	30	40	50	60
Single CAC (Cooling Only)	Outdoor Unit 1Ø NEW!	 ATUQ22GPLA4 ABUQ22GM1A4	 ATUQ30GPLA4 ABUQ30GM1A4	 AUUQ40GH4	 AUUQ50GH4	 AUUQ60GH4
	Ceiling Mounted Cassette NEW!	 ATNQ22GPLA4	 ATNQ30GPLA4	 ATNQ40GNLA4	 ATNQ50GMLA4	 ATNQ60GMLA4
	Ceiling Concealed Duct NEW!	 ABNQ22GM1A4	 ABNQ30GM1A4	 ABNQ40GM3A4	 ABNQ50GM3A4	 ABNQ60GM3A4
	Ceiling Suspended Unit NEW!			 AVNQ40GM1A4	 AVNQ50GM2A4	 AVNQ60GM2A4
	Ducted Split NEW!					 ANNQ60GKA4

RT	3	4	5	10	12.5	20	25
SinglePackage (Cooling Only) 3~5RT : 1Ø 10~25RT : 3Ø	 AK-Q036GH50 AK-Q036GD50	 AK-Q048GH50 AK-Q048GD50	 AK-Q060GH50 AK-Q060GD50	 AK-Q120BC01	 AK-Q150BC01 AK-Q150BC02	 AK-Q240BC01 AK-Q240DC01	 AK-Q300BC01 AK-Q300DC01
SinglePackage (Heat Pump) 20,25RT : 3Ø NEW!						 AK-W240DC00	 AK-W300DC00

Inverter Single Split

Indoor unit

Ceiling Mounted Cassette



Indoor Ceiling Mounted Cassette

Stylish Design Panel

New 4 way cassette panel adapted a unibody shape that matches with the ceiling.



U-style 4Way cassette



reddot design award

Interior fit



Lineless surface



Unibody shape
(No inlet line)

Detachable corner



Compact Size

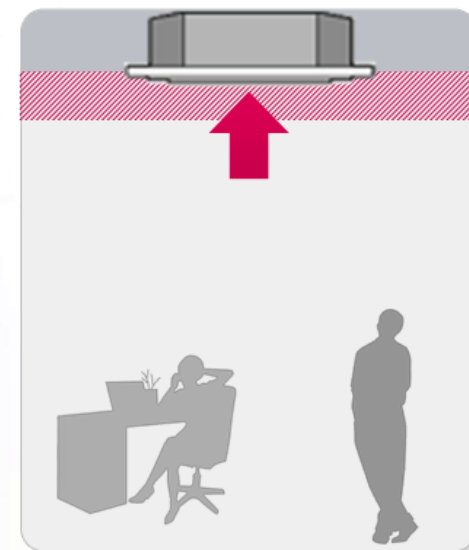
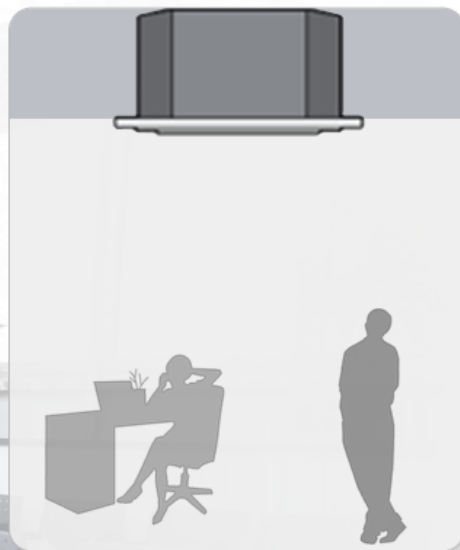
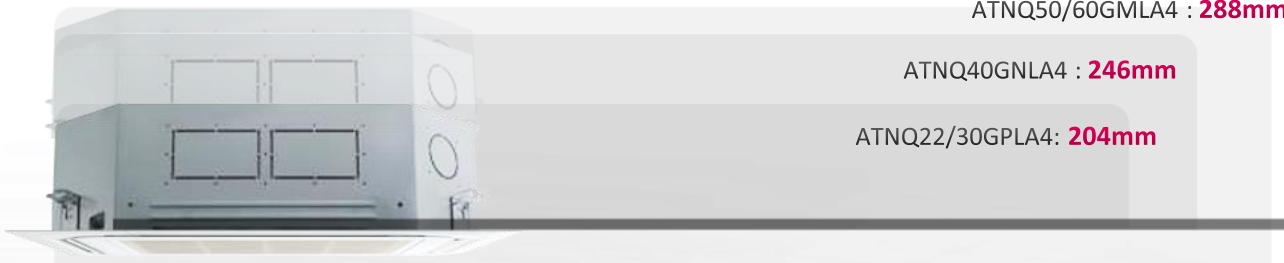
Slim & compact design not only saves space but also reduces installation costs. It's designed to suit most of building designs and fit into various spaces.

Length Width : 840X840mm

ATNQ50/60GMLA4 : **288mm**

ATNQ40GNLA4 : **246mm**

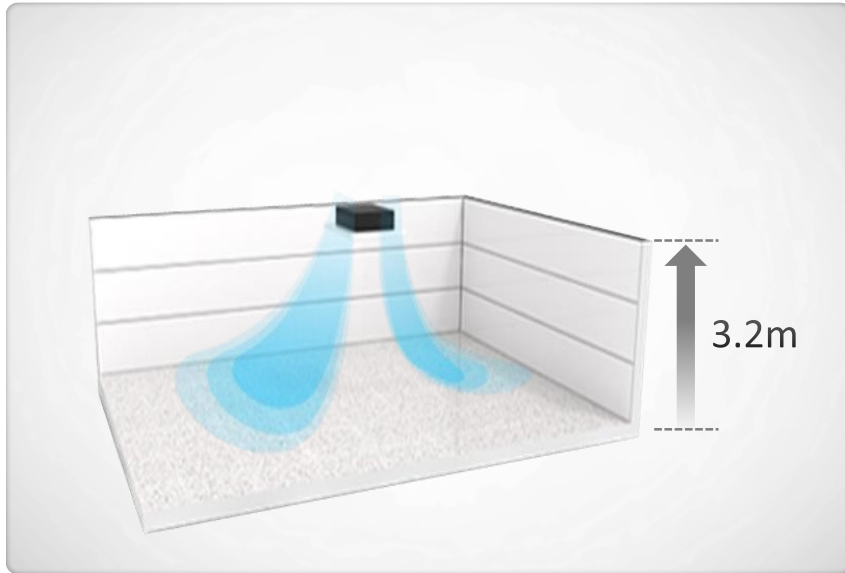
ATNQ22/30GPLA4 : **204mm**



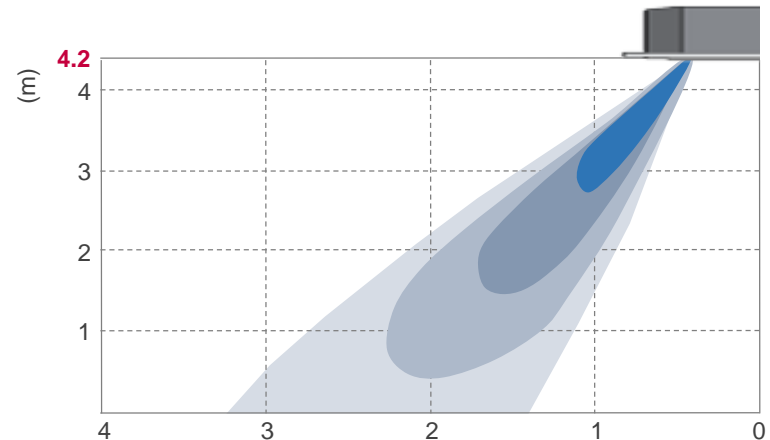
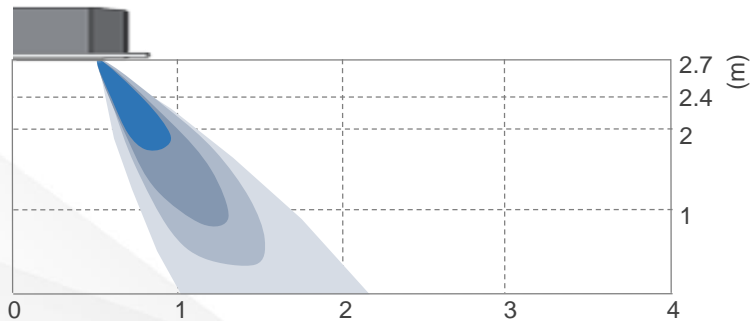
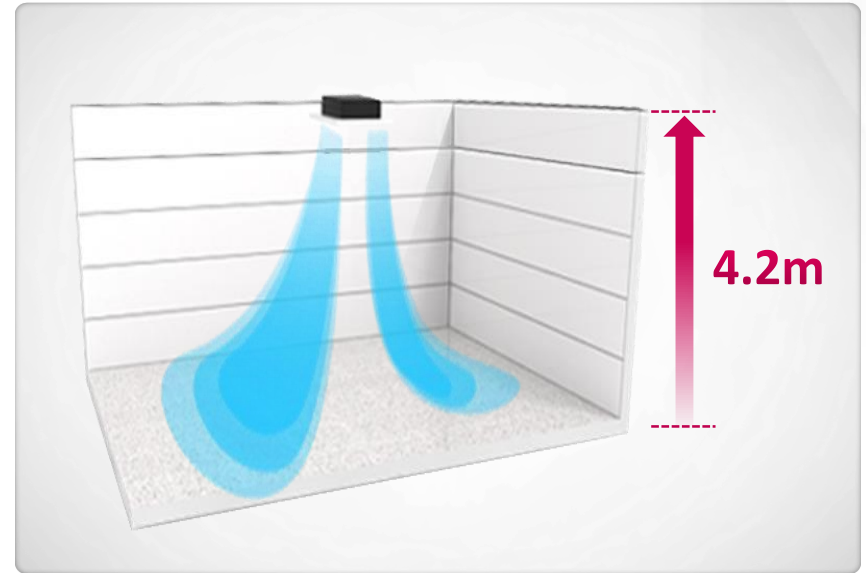
High Ceiling Mode

Airflow in a space with a 4.2m ceiling height is possible with this indoor unit. Further, air flow can be strengthened by adjusting the fan speed.

Basic mode



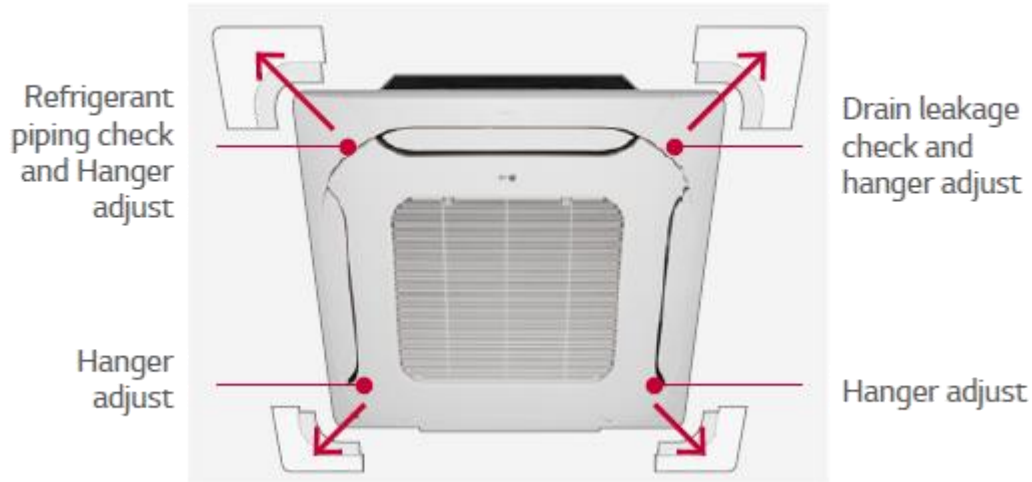
High ceiling mode



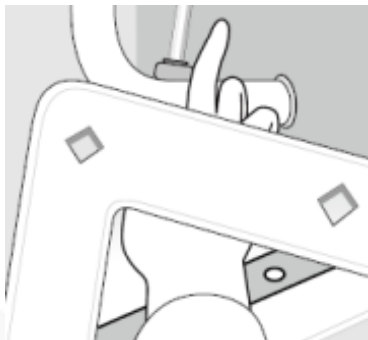
Convenient Panel Installation

The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe. And it is easy to install the panel to the body, using the button type panel design.

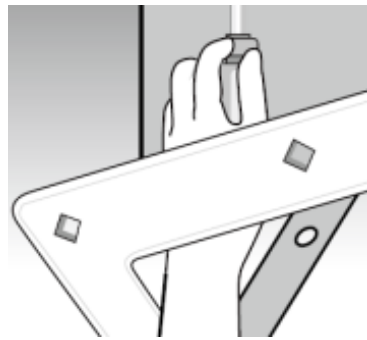
Detachable Corner Design



Drain Leakage Check



Hanger adjust



One Push Panel



Inverter Single Split

Indoor unit

Ceiling Concealed Duct

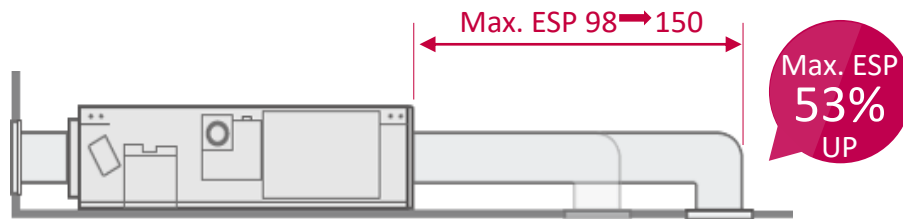


For **Luxury Retail Shop**

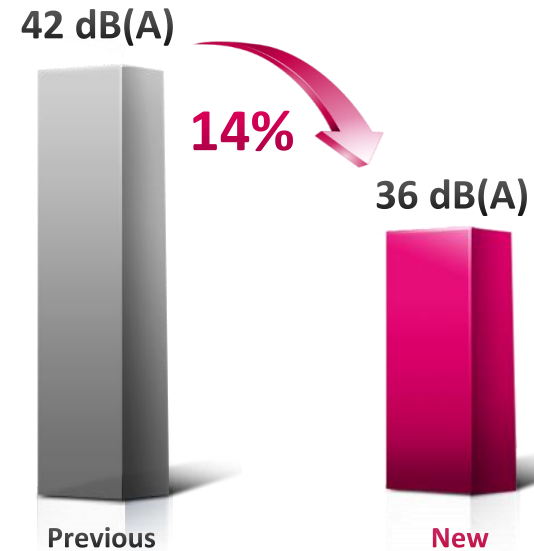
Maximized E.S.P. (External Static Pressure)

With new indoor tool, connectable duct length is more longer than current running unit due to the maximum E.S.P. is improved. Noise level also decreased about 14%

Flexible Air Flow



Silent Air Flow



* Model : 40 kBtu/h (ABNQ40GM3A4)

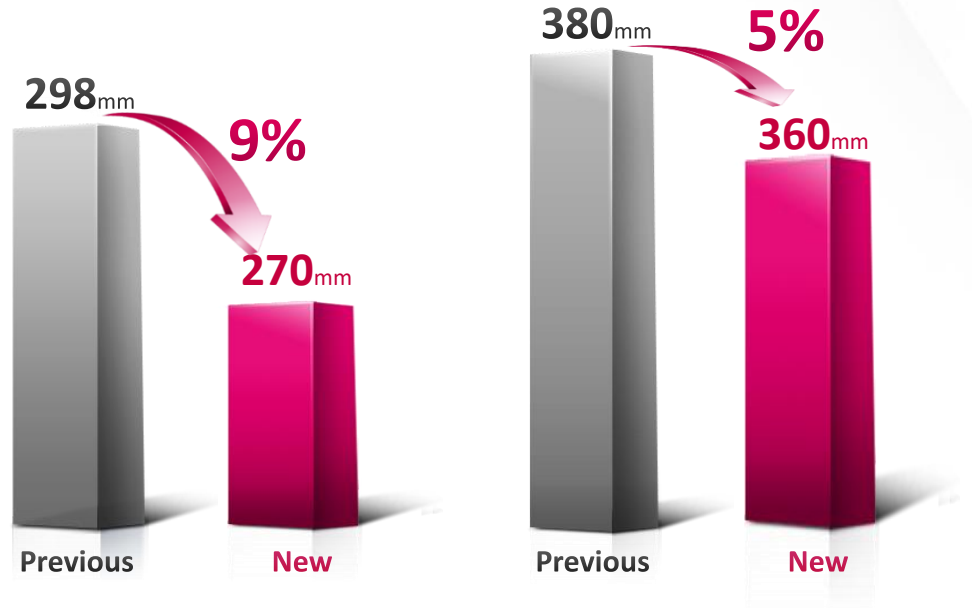
Minimized Height

New mid-static ducts provide ideal solution for installation in limited space.



22 / 30 kBtu/h

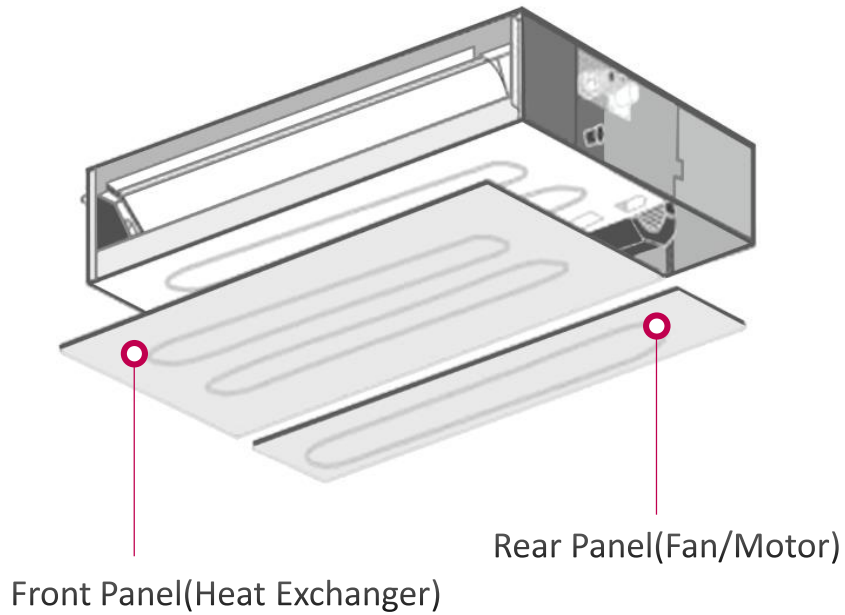
40 / 50 / 60 kBtu/h



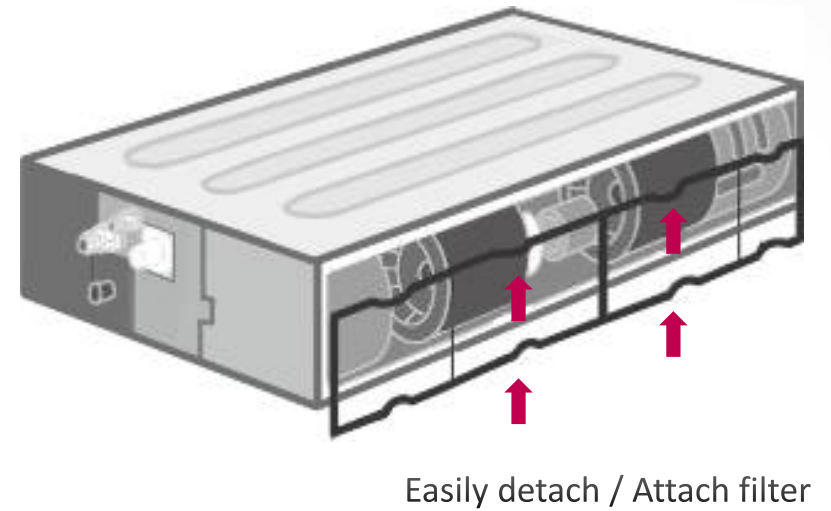
Easy Service & Maintenance

Users don't need to open whole panel for maintenance, since panel is divided into one for heat exchanger and one for fan/motor. Easily detach and attach the filter even in limited space.

Selective panel separation

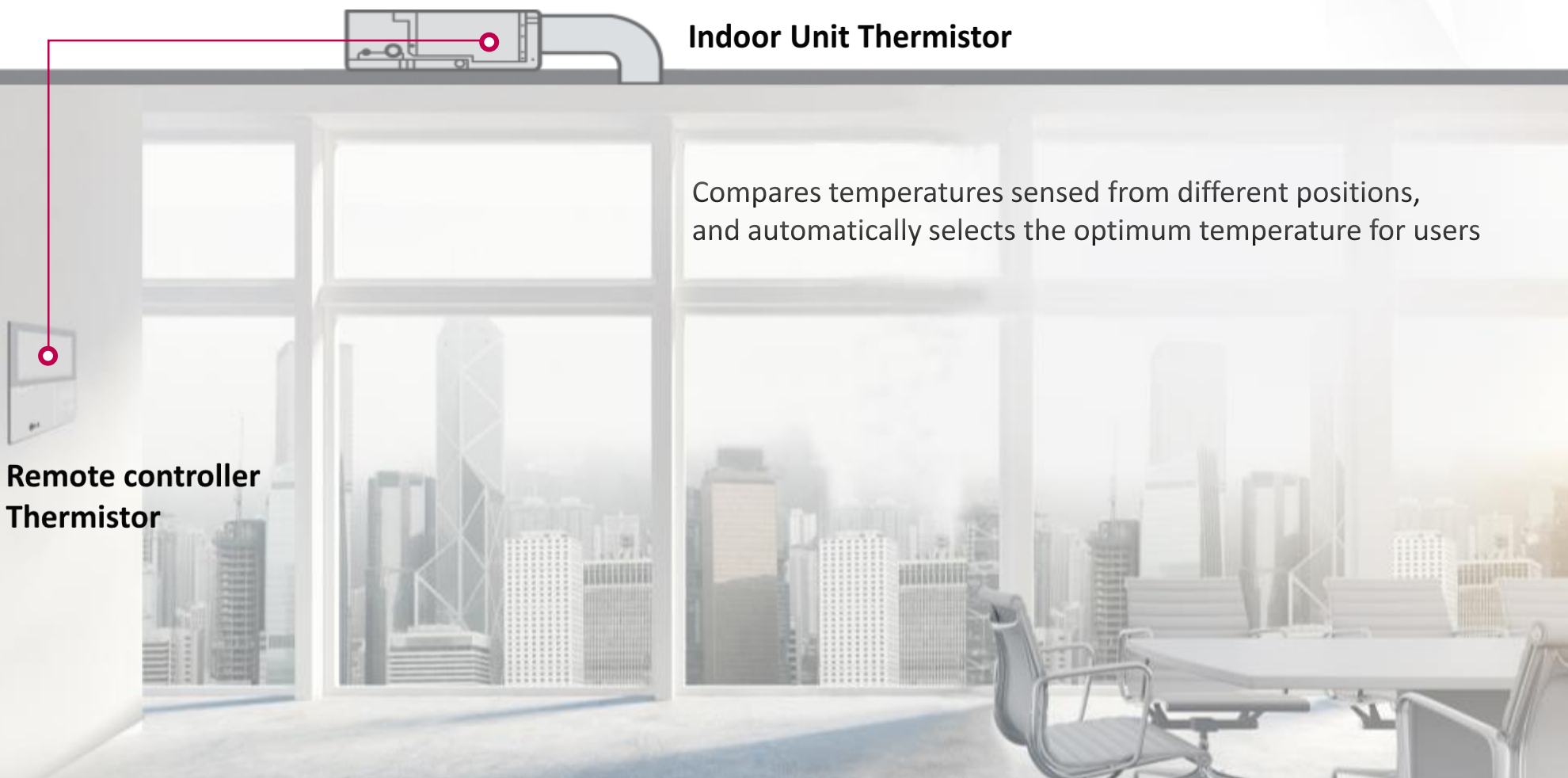


Easily detachable Filter



Two Thermistors Control

The indoor temperature can be checked using the thermistors in the remote controller as well as from the indoor unit. Two thermistors can check the optimum indoor air temperature for a more comfortable environment.



Indoor Unit Thermistor

Compares temperatures sensed from different positions, and automatically selects the optimum temperature for users

**Remote controller
Thermistor**

Inverter Single Split

Indoor unit

Ceiling Suspended Unit



Indoor Ceiling Suspended Unit

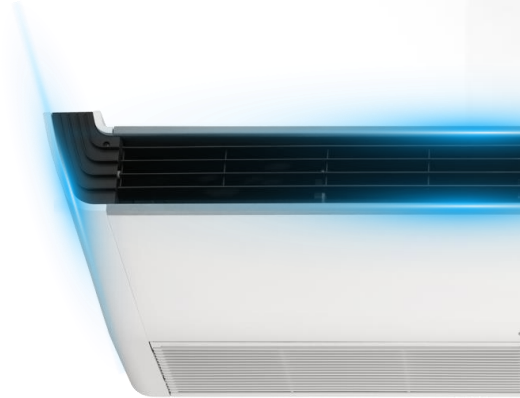


Stylish Design

With its stunning V-shaped design and black vane, LG's new ceiling-suspended air conditioner exudes modern elegance appropriate for any space. The tasteful aesthetics of the air conditioner helped win a prize of the iF Design Award.



**V-Shaped
Design**



**Black
Vane**

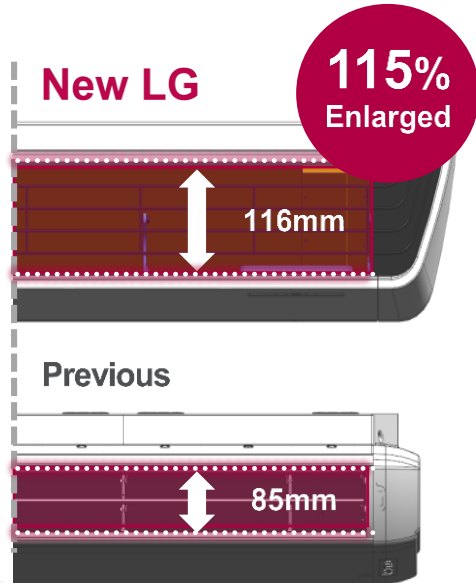


Large Capacity

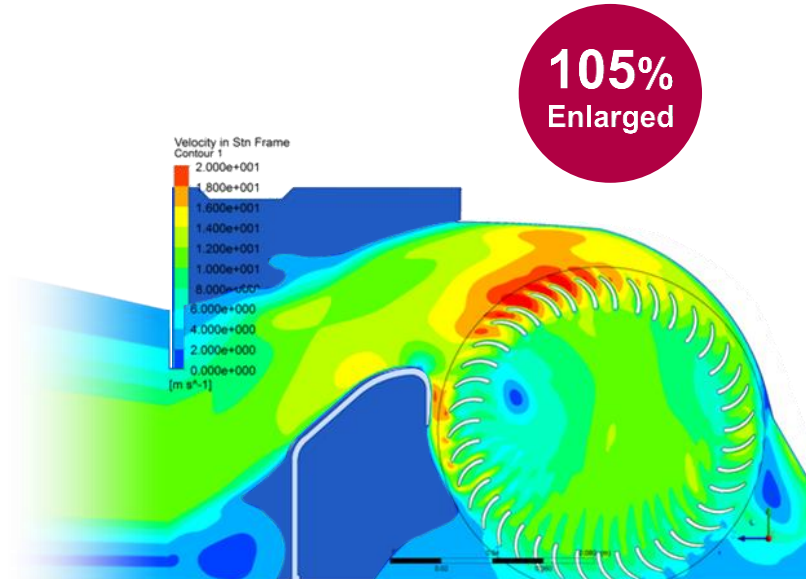
An enlarged outlet space optimized the air flow path and improved heat exchanger's performance. It 30 percent faster cooling enable quick & wide cooling.



Outlet Space



Optimized the Air flow Path



Indoor Ceiling Suspended Unit

Longest Air Flow

The powerful air speed and high volume features enhance the flow of air to reach up to 15m away from the air conditioner.



Indoor Ceiling Suspended Unit



One Touch Filter Changing

An easy in/out filter structure as well as a simplified two-piece filter, which slides out for easy cleaning and maintenance.



One Touch Filter

Easy Installation

Installation speed and ease are improved by reducing the total number of screws and placing them on the easily accessible front panel.

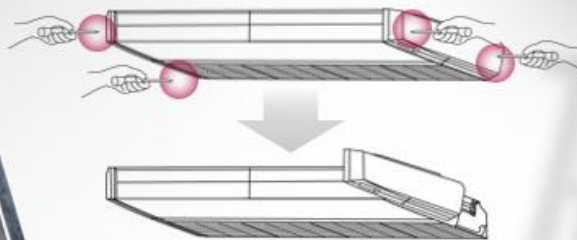
Previous

New Ceiling Suspended Unit



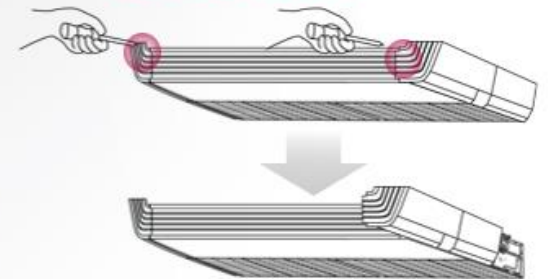
Corner Installation Impossible

Conventional
4 Screws



Corner Installation Possible

New
Ceiling suspended
2 Screws



App. Specification

Combination	Outdoor unit		ATUQ22GPLA4	ATUQ30GPLA4	AUUQ40GH4	AUUQ50GH4	AUUQ60GH4	
	Indoor unit		ATNQ22GPLA4	ATNQ30GPLA4	ATNQ40GNLA4	ATNQ50GMLA4	ATNQ60GMLA4	
Capacity	Cooling	Min.~Rated~Max.	kW	1.58 ~ 5.13 ~ 6.45	2.11 ~ 7.03 ~ 8.79	3.15 ~ 9.99 ~ 11.55	4.05 ~ 12.9~ 14.5	4.05 ~ 17.00 ~ 17.88
		Min.~Rated~Max.	Btu/h	5,400 ~ 17,500 ~ 22,000	7,200 ~ 24,000 ~ 30,000	10,800 ~ 34,100 ~ 39,400	13,800 ~ 44,000 ~ 49,500	13,800 ~ 58,000 ~ 61,000
Power Input	Cooling	Rated	kW	1.51	2.19	3.00	4.53	5.85
Running Current	Cooling	Rated	A	6.60	9.60	13.20	19.90	25.70
EER			Btu / h·W	11.59	10.96	11.37	9.71	9.91
SEER			Wh	19.00	19.00	19.00	18.00	18.00

Combination	Outdoor unit		ABUQ22GM1A4	ABUQ30GM1A4	AUUQ40GH4	AUUQ50GH4	AUUQ60GH4	
	Indoor unit		ABNQ22GM1A4	ABNQ30GM1A4	ABNQ40GM34	ABNQ50GM3A4	ABNQ60GM3A4	
Capacity	Cooling	Min.~Rated~Max.	kW	1.58 ~ 5.00 ~ 6.45	2.11 ~ 7.18 ~ 8.79	3.15 ~ 9.99 ~ 11.55	4.05 ~ 12.9 ~ 14.5	4.05 ~ 17.61 ~ 17.88
		Min.~Rated~Max.	Btu/h	5,400 ~ 17,060 ~ 22,000	7,200 ~ 24,500 ~ 30,000	10,800 ~ 34,100 ~ 39,400	13,800 ~ 44,000 ~ 49,500	13,800 ~ 60,100 ~ 61,000
Power Input	Cooling	Rated	kW	1.59	2.05	3.05	4.53	5.85
Running Current	Cooling	Rated	A	7.00	9.00	13.40	19.90	25.70
EER			Btu / h·W	10.73	11.95	11.18	9.71	10.27
SEER			Wh / Wh	19.00	19.00	19.00	18.00	17.00

Combination	Outdoor unit		AUUQ40GH4	AUUQ50GH4	AUUQ60GH4	
	Indoor unit		AVNQ40GM1A4	AVNQ50GM2A4	AVNQ60GM2A4	
Capacity	Cooling	Min.~Rated~Max.	kW	3.15 ~ 9.99 ~ 11.55	4.05 ~ 12.9 ~ 14.5	4.05 ~ 17.00 ~ 17.88
		Min.~Rated~Max.	Btu/h	10,800 ~ 34,100 ~ 39,400	13,800 ~ 44,000 ~ 49,500	13,800 ~ 58,000 ~ 61,000
Power Input	Cooling	Rated	kW	3.22	4.53	5.85
Running Current	Cooling	Rated	A	14.10	19.90	25.70
EER			Btu / h·W / W / W	10.59	9.71	9.91
SEER			Wh / Wh	19.00	18.00	17.00

Combination	Outdoor unit		AUUQ60GH4	
	Indoor unit		ANNQ60GKA4	
Capacity	Cooling	Min.~Rated~Max.	kW	4.05 ~ 17.00 ~ 17.88
		Min.~Rated~Max.	Btu/h	13,800 ~ 58,000 ~ 61,000
Power Input	Cooling	Rated	kW	5.85
Running Current	Cooling	Rated	A	25.70
EER			Btu / h·W / W / W	9.91
SEER			Wh / Wh	17.00

App. Specification (Colombia)

Combination	Outdoor unit		ATUQ30GPLA4	AUUQ40GH4	AUUQ60GH4	
	Indoor unit		ATNQ30GPLA4	ATNQ40GNLA4	ATNQ60GMLA4	
Capacity	Cooling	Min.~Rated~Max.	kW	2.11 ~ 7.03 ~ 8.79	3.15 ~ 9.99 ~ 11.55	4.05 ~ 17.61 ~ 17.88
		Min.~Rated~Max.	Btu/h	7,200 ~ 24,000 ~ 30,000	10,800 ~ 34,100 ~ 39,400	13,800 ~ 60,100 ~ 61,000
Power Input	Cooling	Rated	kW	2.34	3.32	5.85
Running Current	Cooling	Rated	A	9.5	14.6	25.7
EER			W / W	3.01	3.01	3.01

Combination	Outdoor unit		ABUQ30GM1A4	AUUQ40GH4	AUUQ60GH4	
	Indoor unit		ABNQ30GM1A4	ABNQ40GM34	ABNQ60GM3A4	
Capacity	Cooling	Min.~Rated~Max.	kW	2.11 ~ 7.03 ~ 8.79	3.15 ~ 9.99 ~ 11.55	4.05 ~ 17.61 ~ 17.88
		Min.~Rated~Max.	Btu/h	7,200 ~ 24,000 ~ 30,000	10,800 ~ 34,100 ~ 39,400	13,800 ~ 60,100 ~ 61,000
Power Input	Cooling	Rated	kW	2.16	3.32	5.85
Running Current	Cooling	Rated	A	9.5	14.6	25.7
EER			W / W	3.26	3.01	3.01

Combination	Outdoor unit		AUUQ40GH4	AUUQ60GH4	
	Indoor unit		AVNQ40GM1A4	AVNQ60GM2A4	
Capacity	Cooling	Min.~Rated~Max.	kW	3.15 ~ 9.99 ~ 11.55	4.05 ~ 17.00 ~ 17.88
		Min.~Rated~Max.	Btu/h	10,800 ~ 34,100 ~ 39,400	13,800 ~ 58,000 ~ 61,000
Power Input	Cooling	Rated	kW	3.32	5.85
Running Current	Cooling	Rated	A	14.6	25.7
EER			W / W	3.01	3.01

Combination	Outdoor unit		AUUQ60GH4	
	Indoor unit		ANNQ60GKA4	
Capacity	Cooling	Min.~Rated~Max.	kW	4.05 ~ 17.61 ~ 17.88
		Min.~Rated~Max.	Btu/h	13,800 ~ 60,100 ~ 61,000
Power Input	Cooling	Rated	kW	5.85
Running Current	Cooling	Rated	A	25.7
EER			W / W	3.01

App. Specification – Outdoor unit

Outdoor unit			ATUQ22GPLA4 ABUQ22GM1A4	ATUQ30GPLA4 ABUQ30GM1A4	AUUQ40GH4	AUUQ50GH4	AUUQ60GH4	
Power Supply	V, Ø, Hz		220-240 / 50,60 / 1	220-240 / 50,60 / 1	220-240 / 50,60 / 1	220-240 / 50,60 / 1	220-240 / 50,60 / 1	
Wiring Connections	Power Supply Cable (included Earth)	No. x mm ² (AWG)	3C x 2.5 (12)	3C x 2.5 (12)	3C x 2.5 (12)	3C x 4.0 (10)	3C x 6.0 (6)	
Casing Color	-		Warm Gray	Warm Gray	Warm Gray	Warm Gray	Warm Gray	
Dimensions	W x H x D	mm	770 x 545 x 288	870 x 650 x 330	950 x 834 x 330	950 x 834 x 330	950 x 1,380 x 330	
	W x H x D	inch	30-5/16 x 21-15/32 x 11-11/32	34-1/4 x 25-19/32 x 13	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 13	37-13/32 x 54-11/32 x 13	
Net Weight	kg (lbs)		33.0 (72.8)	41.5 (91.5)	56.0 (123.5)	67 (147.7)	96.0 (211.6)	
Compressor	Type	-	Twin Rotary	Twin Rotary	Scroll	Scroll	Scroll	
	Model	Model x No.	GAT156MAD x 1	GKT208MAB x 1	RJB036MBA x 1	RJB036MBA x 1	RJB036MAA x 1	
	Motor type	-	BLDC	BLDC	BLDC	BLDC	BLDC	
	Motor Output	W x No.	1,500 x 1	1,500 x 1	3,198 x 1	3,198 x 1	3,198 x 1	
Refrigerant	Type	-	R410A	R410A	R410A	R410A	R410A	
	Precharged Amount	g (oz)	850 (30.0)	1,100 (38.8)	1,900 (67.0)	2,200 (77.6)	3,600 (127.0)	
	Chargeless-Pipe Length	m (ft)	7.5 (24.6)	7.5 (24.6)	7.5 (24.6)	7.5 (24.6)	7.5 (24.6)	
	Additional Charging Volume	g/m (oz/ft)	20 (0.22)	40 (0.43)	40 (0.43)	40 (0.43)	40 (0.43)	
Refrigerant Oil	Control	-	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
	Type	-	RB68A	FVC68D	FVC68D	FVC68D	FVC68D	
	Charged volume	cc x No.	400 x 1	670 x 1	1,100 x 1	1,100 x 1	1,100 x 1	
Heat Exchanger	(Row x Column x Fins per inch) x No.	-	(2 x 25 x 21) x 1	(2 x 30 x 21) x 1	(2 x 40 x 21) x 1	(3 x 40 x 21) x 1	(2 x 32 x 14) x 2	
Fan	Type	-	Propeller	Hubless	Propeller	Propeller	Propeller	
	Air Flow Rate	m ³ /min x No.	50 x 1	50 x 1	70 x 1	70 x 1	70 x 2	
Fan Motor	Type	-	BLDC	BLDC	BLDC	BLDC	BLDC	
	Output	W x No.	43.0 x 1	85.0 x 1	124.0 x 1	124.0 x 1	124.0 x 1	
Sound Pressure Level	Cooling	Rated	dB(A)	47	53	55	57	
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)
Piping Length	Max.		m (ft)	30 (98.4)	50 (164.0)	50 (164.0)	50 (164.0)	
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	20 (65.6)	30 (98.4)	30 (98.4)	30 (98.4)	
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-10 (14.0) ~ 50 (122)	-10 (14.0) ~ 50 (122)	-10 (14.0) ~ 50 (122)	-10 (14.0) ~ 50 (122)	-10 (14.0) ~ 50 (122)
	Heating	Min. ~ Max.	°C WB (°F WB)	-	-	-	-	-

App. Specification – Indoor unit (CST)

Model Name	Factory model	-	ATNQ22GPLA4	ATNQ30GPLA4	ATNQ40GNLA4	ATNQ50GMLA4	ATNQ60GMLA4
	base Model		ATNW18GPLP0	ATNW24GPLP0	ATNQ36GNLT0	ATNW48GMLP0	ATNW60GMLP0
Power Supply	#1	V, Φ, Hz	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60
	#2		230, 1, 60	230, 1, 60	230, 1, 60	230, 1, 60	230, 1, 60
Power Input(Indoor)	H/M/L	W	-	-	-	-	-
Running Current(Indoor)	H/M/L	A	-	-	-	-	-
Indoor Fan	Type	-	2D Turbo Fan	2D Turbo Fan	2D Turbo Fan	2D Turbo Fan	2D Turbo Fan
	Air Flow Rate(H/M/L)	m ³ /min	16.5 / 14.5 / 13.0	17.0 / 15.0 / 13.0	23.0 / 21.0 / 19.0	31.0 / 28.0 / 25	31.0 / 28.0 / 25
Indoor Fan Motor	Type	-	BLDC	BLDC	BLDC	BLDC	BLDC
	Drive	-	-	-	-	-	-
	Output	W x No.	50.3 x 1	50.3 x 1	124 x 1	124 x 1	124 x 1
	FLA(Full Load Ampere)	A	0.6	0.6	1.28	1.28	1.28
Dehumidification Rate	-	ℓ/h	1.3	2.4	2.5	5.2	5.2
Heat Exchanger	(Rows x Columns x FPI) x No.	-	(2 x 8 x 19) x 1	(2 x 8 x 19) x 1	(2 x 10 x 19) x 1	(2 x 12 x 19) x 1 + (1 x 10 x 19) x 1	(2 x 12 x 19) x 1 + (1 x 10 x 19) x 1
	Face Area	m ² (ft ²)	0.35 (3.77)	0.35 (3.77)	0.43	0.53 (5.65)	0.53 (5.65)
Dimensions	Net(W x H x D)	mm	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping(W x H x D)	mm	922 x 276 x 917	922 x 276 x 917	922 x 318 x 917	922 x 360 x 917	922 x 360 x 917
Weight	Net	kg	21 (46.3)	21 (46.3)	24 (52.9)	28 (61.7)	28 (61.7)
	Shipping	kg	27 (59.5)	27 (59.5)	30(66.1)	34 (80.0)	34 (80.0)
Exterior	Color	-	Warm Gray	Warm Gray	Warm Gray	Warm Gray	Warm Gray
Protection Dvice	-	-	Fuse	Fuse	Fuse	Fuse	Fuse
Refrigerant	Control Type	-	-	-	-	-	-
Drain Pipe	O.D / I.D	mm	32 / 25	32 / 25	32 / 25	32 / 25	32 / 25
Piping Connection	Liquid	mm(inch)	Φ6.35 (1/4)	Φ9.52 (3/8)	Φ9.52 (3/8)	Φ9.52 (3/8)	Φ9.52 (3/8)
	Gas	mm(inch)	Φ12.7 (1/2)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ15.88 (5/8)	Φ19.05 (3/4)
Sound Pressure Level	Cooling(H/M/L)	dB(A)+3dB	36 / 34 / 32	38 / 36 / 34	40 / 38 / 36	47/44/42	47/44/42
Sound Power Level	Cooling(H/M/L)	dB(A)	-	-	-	-	-
Connecting Cable	Power and Communication cable(H07RN-F)	mm ² × cores	0.75 x 4	0.75 x 4	0.75 x 4	0.75 x 4	0.75 x 4
Decoration Panel	Model Name	-	PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0	PT-MCHW0
	Color	-	Morning Fog	Morning Fog	Morning Fog	Morning Fog	Morning Fog
	Net Dimensions(W x H x D)	mm	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950	950 x 35 x 950
	Shipping Dimensions(W x H x D)	mm	1,004 x 110 x 1,019	1,004 x 110 x 1,019	1,004 x 110 x 1,019	1,004 x 110 x 1,019	1,004 x 110 x 1,019
	Net Weight	kg	6.3	6.3	6.3	6.3	6.3
	Shipping Weight	kg	8.4	8.4	8.4	8.4	8.4

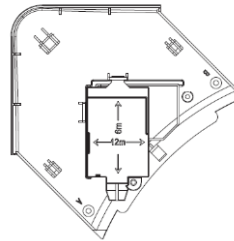
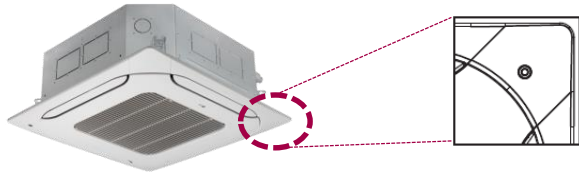
App. Specification – Indoor unit (CVT)

Model Name	Factory model	-	AVNQ40GM1A4	AVNQ50GM2A4	AVNQ60GM2A4
	base Model		AVNW36GM1P0	AVNW48GM1P0	AVNW60GM1P0
Power Supply	#1	V, Φ , Hz	220-240, 1, 50/60	220-240, 1, 50/60	220-240, 1, 50/60
	#2		230, 1, 60	230, 1, 60	230, 1, 60
Power Input(Indoor)	H/M/L	W	-	-	-
Running Current(Indoor)	H/M/L	A	-	-	-
Indoor Fan	Type	-	Cross Flow Fan	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate(H/M/L)	m ³ /min	20.0 / 18.0 / 16.0	30.0 / 25.0 / 20.0	30.0 / 25.0 / 20.0
Indoor Fan Motor	Type	-	BLDC	BLDC	BLDC
	Drive	-	-	-	-
	Output	W x No.	85.9 x 1	125.0 x 1	125.0 x 1
	FLA(Full Load Ampere)	A	1.00	1.47	1.47
Dehumidification Rate	-	ℓ/h	3.8 (8.1)	6.5 (13.8)	6.5 (13.8)
Heat Exchanger	(Rows x Columns x FPI) x No.	-	(3 x 18 x 18) x 1	(3 x 18 x 18) x 1	(3 x 18 x 18) x 1
	Face Area	m ² (ft ²)	0.31 (3.34)	0.46 (4.95)	0.46 (4.95)
Dimensions	Net(W x H x D)	mm	1,200 x 235 x 690	1,600 x 235 x 690	1,600 x 235 x 690
	Shipping(W x H x D)	mm	1,315 x 317 x 768	1,715 x 317 x 768	1,715 x 317 x 768
Weight	Net	kg	28.0 (61.7)	35.0 (77.2)	35.0 (77.2)
	Shipping	kg	34.5 (76.1)	43.0 (94.8)	43.0 (94.8)
Exterior	Color	-	Morning Fog	Morning Fog	Morning Fog
Protection Device	-	-	Fuse	Fuse	Fuse
Refrigerant	Control Type	-			
Drain Pipe	O.D / I.D	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Piping Connection	Liquid	mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas	mm(inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)
Sound Pressure Level	Cooling(H/M/L)	dB(A)+3dB	47 / 45 / 42	48 / 44 /40	48 / 44 /40
Sound Power Level	Cooling(H/M/L)	dB(A)			
Connecting Cable	Power and Communication cable(H07RN-F)	mm ² x cores	4C x 0.75	4C x 0.75	4C x 0.75

Installation Location

Human detection sensor

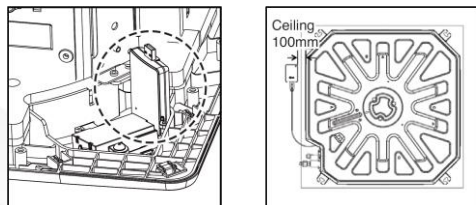
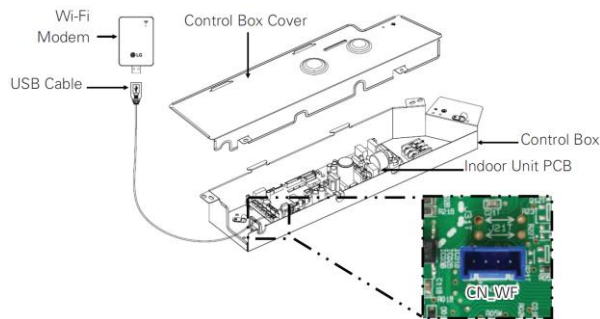
4Way Ceiling Cassette



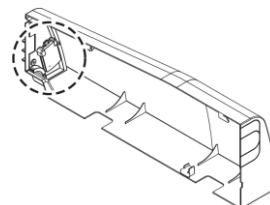
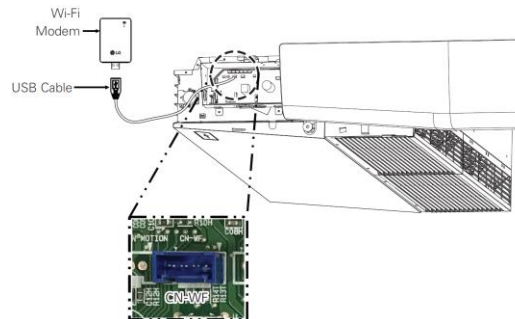
Human detection sensor
(PTVSMA0)

Wi-Fi Modem

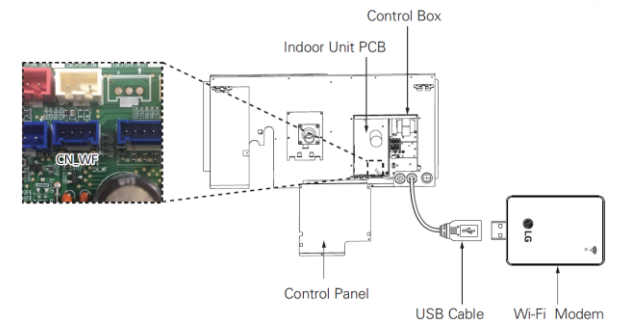
4Way Ceiling Cassette



Ceiling Suspended Air Conditioner

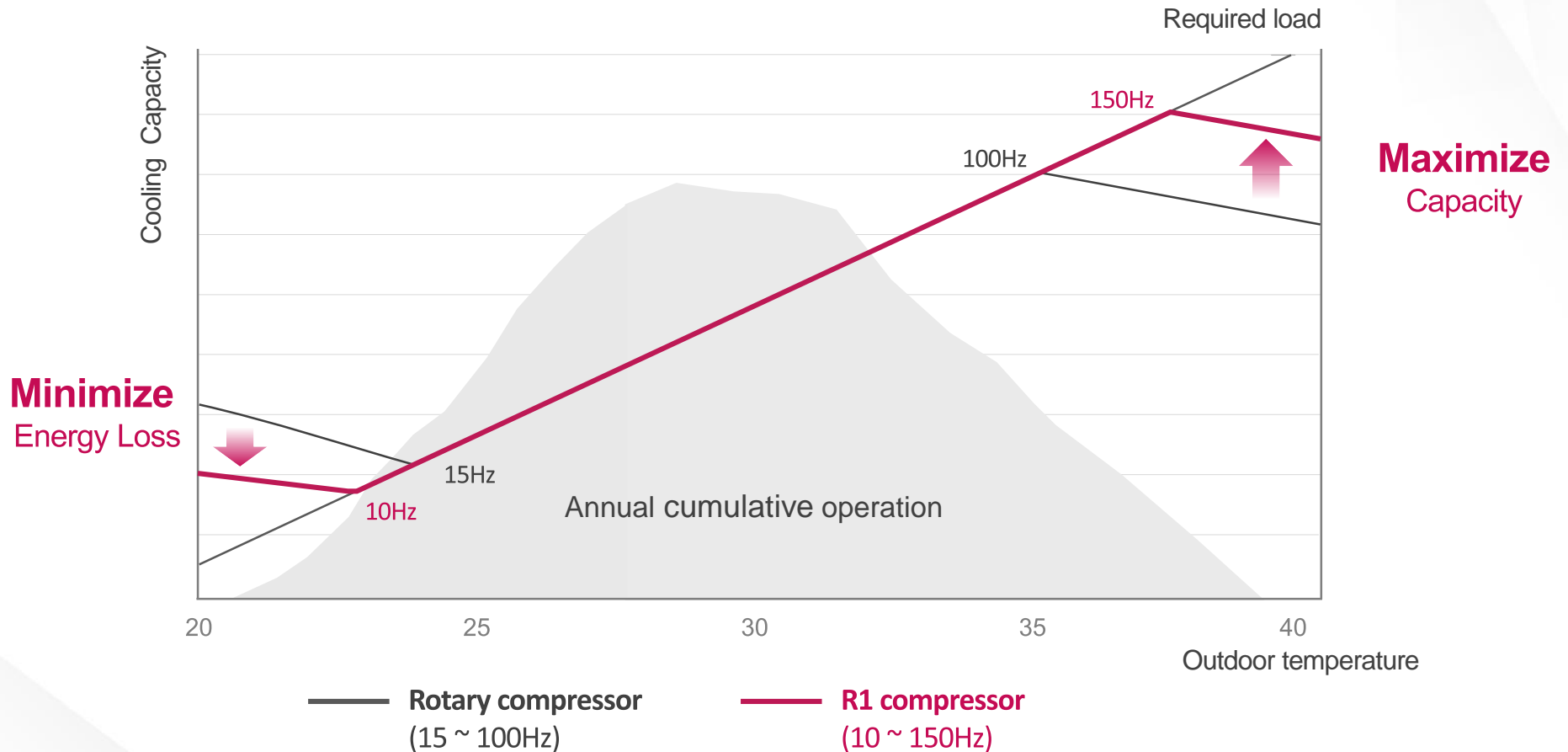


Ceiling Concealed Duct



R1 Compressor™

R1 compressor achieves an extended operating range with a smaller volume compared to the conventional one. (rotary type)
Applying the R1 compressor, Annual energy efficiency of product is improved by 4~10%.


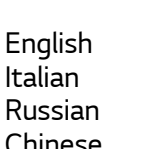
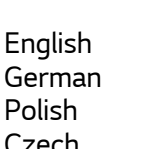









※ The values may vary by region.








Individual Controller

• B&W : Black & White

Category		Image	Model	Contents	
Wired Remote Controller	Premium	 <p>PREMTA000 English Portuguese Spanish French</p>	 <p>PREMTA000A English Italian Russian Chinese</p>	 <p>PREMTA000B English German Polish Czech</p>	<ul style="list-style-type: none"> • 5 inch color display • Touch screen • Group control (Max 16 indoor units) • Temp. /Humid. → Humidity sensing
	Standard III	 <p>PREMTB100 (White)</p>	 <p>PREMTBB10 (Black)</p>	<ul style="list-style-type: none"> • 4.3 inch color display • Touch button • Group control (Max 16 indoor units) • Temp./Humid. → Humidity sensing • 1 digital output available(on/off) 	
	Standard II	 <p>PREMTB001 (White)</p>	 <p>PREMTBB01 (Black)</p>	<ul style="list-style-type: none"> • 4.3 inch B&W display • Physical button • Group control (Max 16 indoor units) • 2-remote controller control • Temp. sensing • Schedule function 	
	Simple	 <p>PQRCVCLOQW (White) PQRCHCA0QW (White, for Hotel)</p>	 <p>PQRCVLOQ (Black) PQRCHCA0Q (Black, for Hotel)</p>	<ul style="list-style-type: none"> • 2.6 inch B&W display • Physical button • Group control (Max 16 indoor units) • 2-remote controller control • Temp. sensing • For Hotel: except mode change 	
Wireless Remote Controller	 <p>PQWRHQ0FDB(Heat Pump) PQWRCQ0FDB(Cooling Only)</p>	<ul style="list-style-type: none"> • 2 inch B&W display • Physical button • Temp. sensing 			

Centralized Controller

• B&W : Black & White

Category	Image	Model	Contents
AC Manager 5 Max 8,192 units	`17 	PACM5A000 - Integration for multiple ACP and AC Smart	<ul style="list-style-type: none"> • PC Access Controller • Supports 32 ACP 5 or AC Smart 5 • Supports Chrome(Recommended), Safari, Internet Explorer 11
ACP 5 Max 256 units	`18 	PACP5A000 - BACNet IP / Modbus TCP	<ul style="list-style-type: none"> • PC Access Controller • DC 12 V Adaptor • RS-485 : 6 channels CH1~4 : indoor Units CH5 : LGAP(AHU) or Modbus(AHU, Chiller, ACS I/O) CH6 : Modbus(AHU, Chiller, ACS I/O) • DI 10EA, DO 4EA(DI1 : Emergency stop Only)
AC Smart 5 Max 128 units	`18 	PACS5A000 - 10.2 inch Touch LCD - BACNet IP / Modbus TCP	<ul style="list-style-type: none"> • 10.2 inch color display / Touch screen • DC 12 V adaptor • RS-485 : 2 channels CH1 : LGAP(AHU) or Modbus(AHU, Chiller, ACS I/O) or Indoor Unit CH2 : Indoor unit • DI 2EA, DO 2EA
AC Ez Touch Max 64 units	`16 	PACEZA000 - 5 inch Touch LCD	<ul style="list-style-type: none"> • 5 inch color Display / Touch screen • DC 12 V adaptor • RS-485 : 1 channel • DI 1EA(Emergency stop Only)
AC Ez Max 32 units	`11 	PQCSZ250S0	<ul style="list-style-type: none"> • B&W Display & 18 LED • Button control • DC 12 V • RS-485 : 1 channel